

**SUB-SECTION-E-60****INDICATIVE VENDOR LIST**

**Disclaimer for Indicative Vendor List**

1.1 Reasonable efforts have been made to collate the sub-vendors proposed by the various main contractors from time to time against different Projects/Packages and accepted by NTPC for various items. However, in case of error/omission, if any, and represented by the successful bidder this will be addressed during the execution of the contract based on the material evidence available with NTPC / Main Contractor.

1.2 The approved sub-vendor list drawn is not based on NTPC driven enlistment process but based on the sub- vendors proposed by various Main Contractors. As such, it is possible that some of the Suppliers/Manufacturers who may be involved in similar work/process may not be appearing in the list as such sub-vendors may not have been proposed by Main Contractors against NTPC Contracts.

1.3 In case the successful bidder chooses to propose additional sub-vendors with relevant experience after the award of the contract such sub-vendors will be considered in terms of Clause no: 19.1 of GCC, provided the proposals are received sufficiently in time: 90 days prior to ordering date of a Bought-Out Items/Start of Manufacturing so as not to impede the progress of the contract.

1.4 Sub-vendors have been grouped under different categories of items. It is possible that an item characterized by certain specific features such as range and type required as per Main Contractor's design requirements may not be in the range of the listed sub vendor's manufacturing process/capability. As such the main contractor to ascertain the vendor's capability to meet his specific requirements before considering a sub vendor.

1.5 It is to be noted by the bidders that any shortfall in contract performance attributable to the sub-vendor listed will not absolve the contractor from his contractual obligations in any manner.

1.6 The approval was granted based on the evaluation of relevant capabilities and facilities possessed by the sub-vendor at the time of evaluation. Also, some of the sub-vendors may not be active. As such, the successful bidder is to carry out his own due diligence before considering the listed sub-vendor for subletting: the current status of the sub-vendor, the continued availability of productive resources including Human Resources.

1.7 The list of sub-vendors is periodically revised to include new sub-vendors. Such a revision may also see a deletion of certain sub-vendors who may have been disqualified on grounds of inadequate performance or banned in line with NTPC's banning policy. The then current list will be shared with the successful bidder immediately on award.



Project/ पारयाजना : 2 X 660 MW SUPER CRITICAL THERMAL POWER PROJECT, HTPS, KORBA WEST  
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 Supplier/ आपूर्तिकर्ता:  
 Contract No./ अनुबंध सं.:

INDICATIVE LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL  
 क्वालिटी प्लान तथा सब -वेंडर के अनुमोदन सहित मदों की सूची  
 SUB-SYSTEM उप-प्रणाली: SG (MECH.)

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1	RAPH	I			REFER SUB QR ITEM LIST Refer Note 1				STATIC COMPONENTS, ROTATING COMPONENTS, GUIDE/SUPPORT BEARINGS- NTPC APPROVED VENDORS	
2	FD, PA & ID FANS	I			REFER SUB QR ITEM LIST Refer Note 1				STATIC, ROTATING COMPONENTS AND BLADES - NTPC APPROVED VENDORS	
3	COAL MILL	I			REFER SUB QR ITEM LIST Refer Note 1				MILL COUPLING, PGB, GRINDING ROLLS, BULL RING SEGMENTS, MILL HOUSING, SEPARATOR AND OTHER MAIN COMPONENTS - FROM NTPC APPROVED SOURCES	
4	ESP	I			REFER SUB QR ITEM LIST Refer Note 1				COLLECTING ELECTRODE, EMITTING ELECTRODE - NTPC APPROVED VENDORS	
5	GRAVIMETRIC COAL FEEDERS	I			REFER SUB QR ITEM LIST Refer Note 1					
6	RECIRCULATION PUMP	I			REFER SUB QR ITEM LIST Refer Note 1					
7	AUXILIARY BOILER	I			REFER SUB QR ITEM LIST Refer Note 1					
8	ESP SUPPORT STRUCTURE (AUTO WELDED COLUMNS & ROOF BEAMS)	I			NTPC APPROVED SOURCES		A		REFER BOILER STRUCTURE LIST	
9	SEAMLESS TUBES	\$			VALLOUREC & MANNESMANN TUBES	FRANCE, GERMANY	A		CS & AS T-11, T-22, T-23, T-91, T-92	
		\$			TENNARIS GLOBAL SERVICES SA, URUGUAY	DALMINE, ITALY	A		CS & AS T-11, T-22	
		\$			TENNARIS GLOBAL SERVICES SA, URUGUAY	SILCO, ROMANIA	A		CS & AS T-11, T-22, T-23, T-91	
		\$			TENNARIS GLOBAL SERVICES SA, URUGUAY	NKK TUBES, JAPAN	A		CS & AS T-11, T-22, T-91	
		\$			MAHARASHTRA SEAMLESS LTD	RAIGAD	A		CS HOT FINISHED OD:21.0 MM TO 168.3 MM WT: 2.0 MM TO 20.0 MM COLD FINISHED OD:19.0 MM TO 88.9 MM WT: 1.0 MM TO 12.0 MM	
		\$			IBF S.P.A	ITALY	A		CS & AS T-11, T-12, T-22, T-91	
		\$			JFE STEEL CORPORATION	JAPAN	A		CS & AS T-11, T-22, T-23, T-91, T-92	



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		\$			TUBOS REUNIDOS INDUSTRIAL, S.L.U	SPAIN	A		CS & AS T-11, T-22, T-23, T-91, T-92	
		\$			JINDAL SAW LIMITED	NASHIK	A		CS & AS T-11, T-12, T-22 HOT FINISHED OD: 33.4 MM TO 168.3 MM WT: 3.5 MM TO 21.95 MM COLD FINISHED OD: 6.0 MM TO 140.0 MM WT: 0.8 MM TO 15.0 MM	
		\$			REMI METALS GUJARAT LTD	BHARUCH	A		CS & AS T-11, T-12, T-22 HOT FINISHED OD: 28.6 MM TO 177.8 MM WT: 3.0 MM TO 28.0 MM COLD FINISHED OD: 9.0 MM TO 127.0 MM WT: 1.6 MM TO 20.0 MM	
		\$			WAYMAN GORDAN	USA	A		CS,T11,T12,T22,T91	
		\$			BENTELER STEEL/TUBE GMBH	GERMANY	A		CS,T-11, T23, T-22, T-91 & T-92	
		\$			HEAVY METALS & TUBES LTD	AHMEDABAD	A		1) CS HOT FINISHED UP TO OD: 76.2 MM AND WT:12.0 MM 2) CARBON STEEL TUBES (CDS-COLD DRAWN SEAMLESS) 76.2MM ODX16.15MM THICKNESS 3) ALLOY STEEL TUBES UP TO GRADE 22 (HFS-HOT FINISH SEAMLESS & CDS) 76.2MM OD X 16.15MM THICKNESS	
		\$			PRODUCTOS TUBULARES,	SPAIN	A		CS & AS T-11, T-22, T-23, T-91	
		\$			ISMT	AHMEDNAGAR,BARAM ATI	A		CS, T11, 12, 22 HOT FINISHED OD: 38.0 MM TO 273.0 MM WT: 3.5 MM TO 40.0 MM COLD FINISHED OD: 18.0 MM TO 140.0 MM WT: 1.5 MM TO 15.0 MM	
		\$			NIPPON STEEL & SUMITOMO METAL CORPORATION	JAPAN	A		CS, T-11, T-22, T23, T-91, & T-92	
		\$			BENTELER STEEL/TUBE GMBH	GERMANY	A		CS, T-11, T23, T-22, T-91 & T-92	
		\$			BHEL SSTP	TRICHY	A		CS, T-11, T-12, T-22	
10	SEAMLESS TUBES(RIFFLED)	\$			SALZGITTER MANNESAMANN PRECISION	FRANCE	A		CS	
11	SEAMLESS TUBES(SS)	\$			KOBE SPECIALITY STEEL CO LTD	JAPAN	A		SS304, SS347H	



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		\$			SMST	ITALY	A		SS304, 347H, SUPER 304	
		\$			TUBACEX	SPAIN	A		SS304, 347H, SUPER 304	
		\$			PASCO SPL STEEL CO.	SOUTH KOREA	A		SS304, 347H, SUPER 304	
		\$			NIPPON STEEL & SUMITOMO METAL CORPORATION	JAPAN	A		SS 304, SS347H, SUPER 304 OD UP TO 114.3 MM	
12	SEAMLESS PIPES	\$			TENNARIS GLOBAL SERVICES SA, URUGUAY	DALMINE, ITALY	A		CS & AS P-11, P-22, P-91	
		\$			TENNARIS GLOBAL SERVICES SA, URUGUAY	SILCO, ROMANIA	A		CS & AS T-11, T-22, T-91 UPTO DIA 159 MM	
		\$			TENNARIS GLOBAL SERVICES SA, URUGUAY	NKK TUBES, JAPAN	A		CS & AS T-11, T-22, T-91	
		\$			VALLOUREC & MANNESMANN TUBES	FRANCE, GERMANY	A		CS & AS P-11, P-22, P-91. P-92	
		\$			TUBOS REUNIDOS INDUSTRIAL, S.L.U	SPAIN	A		CS & AS P-11, P-22, P-91	
		\$			ISMT	AHMEDNAGAR, BARAMATI	A		CS, T11, 12, 22 HOT FINISHED OD: 38.0 MM TO 273.0 MM WT: 3.5 MM TO 40.0 MM COLD FINISHED OD: 18.0 MM TO 140.0 MM WT: 1.5 MM TO 15.0 MM	
		\$			REMI METALS GUJARAT LTD	BHARUCH	A		CS & AS T-11, T-12, T-22 HOT FINISHED OD: 28.6 MM TO 177.8 MM WT: 3.0 MM TO 28.0 MM COLD FINISHED OD: 9.0 MM TO 127.0 MM WT: 1.6 MM TO 20.0 MM	
		\$			VALCONVY TRUB CHOMUTOV,	CZECH REPUBLIC	A		CS & P-12 & P-22	
		\$			ARCELORMITTAL TUBULAR PRODUCTS ROMAN S.A	ROMANIA	A		CS	
		\$			WAYMAN GORDAN	USA	A		CS & AS P-11, P-22, P-91	
		\$			MAHARASHTRA SEAMLESS LTD	RAIGAD	A		CS HOT FINISHED OD:219.1 MM TO 355.6 MM WT: 6.35 MM TO 35.1 MM COLD FINISHED OD:19.0 MM TO 88.9 MM WT: 1.0 MM TO 12.0 MM	



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		\$			PRODUCTOS TUBULARES,	SPAIN	A		CS & AS P-11, P-12, P-22, P-91	
		\$			NIPPON STEEL & SUMITOMO METAL CORPORATION	JAPAN	A		CS & AS P-11, P-22, P-91 & P-92	
		\$			TENNARIS GLOBAL SA, URUGUAY	NKK TUBES, ITALY	A		P-91, P-22, P-11, P12, CS	
		\$			JINDAL SAW LIMITED	NASHIK	A		CS, T11, 12, 22 HOT FINISHED OD: 33.4 MM TO 168.3 MM WT: 3.5 MM TO 21.95 MM COLD FINISHED OD: 6.0 MM TO 140.0 MM WT: 0.8 MM TO 15.0 MM	
		\$			IBF S.P.A	ITALY	A		P-92, P-91, P-22, P-11, P12, CS	
		\$			JFE STEEL CORPORATION	JAPAN	A		P-92, P-91, P-22, P-11, P12, CS	
		\$			BHEL SSTP	TRICHY	A		CS	
		\$			BENTELER STEEL/TUBE GMBH	GERMANY	A		P-11, P-22, P-91, P-92 UP TO OD 160 MM	
		\$			RINGMILL SPA	ITALY	A		CS OD UP TO 914 MM & WT UP TO 102 MM & AS P-91	
		\$			FORGIATURA MORANDINI SRL	ITALY	A		CS & AS P-11, P-22, P-91 & P-92	
		\$			FORGIATURA MORANDINI SRL	AHMEDABAD	A		1. CARBON STEEL PIPES (HFS & CDS) 127MM OD X 21MM THICKNESS 2. ALLOY STEEL PIPES UP TO GRADE 22 (HFS & CDS) 127MM OD X 21MM THICKNESS	
13	PLATES AND ROLLED SECTION (CS & AS EXCLUDING CS- IS:2062 GRADES)	\$			INDUS STEEL	BELGIUM	A		CS-SA515 AS UP TO GR-91	
		\$			ILSENBURGER GROBBLECH	GERMANY	A		CS-SA 299, SA515, BS EN 10025, AS UP TO GRADE 91	
		\$			DILLINGER-GTSVENTES	GERMANY	A		CS-SA 299, SA515, BS EN 10025, A36, AS UP TO GRADE 91	
		\$			SIJ ACRONI D.O.O., SLOVENIA	SLOVENIA	A		CS- SA515, BS EN 10025, A36, AS UP TO GRADE 91	
		\$			THYSSENKRUPP	GERMANY	A		CS- SA515 BS EN 10025 A36, AS UP TO GRADE 22	



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		\$			INDUSSTEEL LOIRE	FRANCE	A		CS-SA 299, SA515; AS UP TO GRADE 22	
		\$			ARCELLOR MITAL NIPPON STEEL (Formerly ESSAR Steel)	HAZIRA	A		CS- SA515, BS EN 10025, A36, AS GRADE 12 &22	
		\$			VOESTALPINE GROBBLECH GMBH	AUSTRIA	A		CS- SA515 BS EN 10025 A36, AS UP TO GRADE 22	
		\$			SAIL	BHILAI/SALEM	A		CS- SA515 BS EN 10025 A36, AS UP TO GRADE 22	
		\$			NIPPON STEEL	JAPAN	A		CS- SA515 BS EN 10025 A36, AS UP TO GRADE 22	
		\$			POSCO	SOUTH KOREA	A		CS- SA515 BS EN 10025 A36, AS UP TO GRADE 22	
		\$			REINER BRACH GMBH & CO.	GERMANY	A		CS- SA 299 SA515 BS EN 10025 A36, AS UP TO GRADE 22	
		\$			LLYODS STEEL INDUS LTD	INDIA	A		ALLOY STEEL PLATES AS PER A-204 & A-387 UPTO THICKNESS OF 40MM FOR STRUCTURAL STEEL APPLICATION , IN NON-PRESSURE PARTS.	
14	PLATES & ROLLED SECTION (CS-IS 2062 STRUCTURAL STEEL GRADES)	\$			REFER TO SUB-VENDORS MENTIONED IN THE TECHNICAL SPECIFICATIONS SEC-VI, PART-B		A			
15	PLATES(SS)	\$			OUTOKUMPU	SWEDEN	A		SS PLATES UP TO 20 MM THK	
		\$			INDUSSTEEL	BELGIUM	A		GRADE-304,309,310,316	
		\$			JSL STAINLESS	JAIPUR	A		LINER SS 304	
		\$			INDUSSTEEL LOIRE	FRANCE	A		GRADE-304,309,310,316	
		\$			SAIL	BHILAI/SALEM	A		GRADE-304,309,310,317	



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		\$			COLUMBUS STAINLESS STEEL	SOUTH AFRICA	A		GRADE-304,309,310,318	
16	SEPARATOR & STORAGE TANK	I			ALSTOM	USA	A			
		I			BHEL	TRICHY	A			
		I			GE INDIA	DURGAPUR	A			
		I			DOOSAN	SOUTH KOREA	A			
		I			L&T-MHPS BOILERS PVT LTD	HAZIRA	A			
17	HEADERS AND SUCTION MANIFOLDS	I			ALSTOM	USA	A			
		I			BHEL	TRICHY	A			
		I			GE INDIA	DURGAPUR	A			
		I			DOOSAN	CHENNAI	A			
		I			DOOSAN VINA	VIETNAM	A			
		I			L&T-MHPS BOILERS PVT LTD	HAZIRA	A			
18	SPIRAL WATER WALLS	I			BHEL	TRICHY	A			



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		I			GE INDIA	DURGAPUR	A			
		I			ALSTOM	USA	A			
		I			DOOSAN	CHENNAI	A			
		I			DOOSAN VINA	VIETNAM	A			
		I			DOOSAN	SOUTH KOREA	A			
19	TUBULAR PRODUCTS( COILS & PANELS) EXCLUDING SPIRAL WALLS	I			GE INDIA	DURGAPUR	A			
		I			BHEL	TRICHY	A			
		I			ALSTOM	USA	A			
		I			DOOSAN	CHENNAI	A			
		I			DOOSAN VINA	VIETNAM	A			
		I			DOOSAN	SOUTH KOREA	A			
		I			L&T-MHPS BOILERS PVT LTD	HAZIRA	A			
		I			MHI	JAPAN	A			
20	CRITICAL PIPING /PCP( MS, CRH, HRH, FW) AND BOILER PIPING	I			BHEL	TRICHY, THIRUMAYAM	A			



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		I			GE INDIA	DURGAPUR	A			
		I			DOOSAN	SOUTH KOREA	A			
		I			BHR	GERMANY	A			
		I			DEE DEVELOPMENT	PALWAL	A			
		I			BENTEC	USA	A			
		I			L&T PIPING CENTRE	HAZIRA	A			
		I			SEONGHWA IND CO LTD	SOUTH KOREA	A			
21	MISC HP PIPING EXCLUDING CRITICAL PIPING(CS, AS UP TO GRADE 91)	I			BHEL	TRICHY	A			
		I			GE INDIA	DURGAPUR	A			
		I			DOOSAN	SOUTH KOREA	A			
		I			BHR	GERMANY	A			
		I			DEE DEVELOPMENT	PALWAL	A			
		I			BENTEC	USA	A			
		I			L&T PIPING CENTRE	HAZIRA	A			
		I			SEONGHWA IND CO LTD	SOUTH KOREA	A			



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		I			PAL ENGG	YAMUNANAGAR	A			
22	MISC HP PIPING EXCLUDING CRITICAL PIPING(CS, AS UP TO GRADE 22)	I					A		ABOVE MENTIONED PIPING VENDORS ARE ALSO ACCEPTABLE	
		I			ISGEC	YAMUNANAGAR	A		UP TO GRADE 22	
		I			UNITECH MACHINES LTD	SAHARANPUR	A		ONLY FOR CS GRADE	
		I			BEND JOINTS PVT LTD	BHOPAL	A		ONLY FOR CS GRADE	
		I			SEAM INDUSTRIES PVT LTD	NAGPUR	A		ONLY FOR CS GRADE	
		I			S&G	PALWAL	A		CS & AS UP TO GRADE 22 (EXCEPT BOILER PIPING & CRITICAL PIPING)	
		I			FLASH FORGE	VISAKHAPATNAM	A		ONLY FOR CS GRADE	
23	MIXING SPHERES	I			GE INDIA	DURGAPUR	A			
		I			BHEL	TRICHY	A			
		I			ALSTOM	USA	A			
		I			DOOSAN	SOUTH KOREA	A			
24	COAL BURNER ASSY & SOFA/OFA PORT/AA PORT	I			ALSTOM	USA	A			



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		I			BHEL	TRICHY	A			
		I			DOOSAN	SOUTH KOREA	A			
		I			L&T-MHPS PVT LTD	HAZIRA	A			
		I			DEE DEE ENGINEERING ENTERPRISES	TRICHY	A			
25	AIR COOLED OIL GUN ASSEMBLY	I			BHEL	TRICHY	A			
		I			SIGMA POWER	TRICHY	A			
		I			DOOSAN	SOUTH KOREA	A			
26	HFO/LFO PUMPS	I			ALEKTON	CHENNAI	A			
		I			UT PUMPS	FARIDABAD	A			
		I			ROTO PUMPS LTD.	GREATER NOIDA	A			
		I			ALLWEILER INDIA PVT.LTD.	GERMANY	A			
		I			BOURMANN	GERMANY	A			
		I			TUSHACO PUMPS PVT LTD/ALLWEILER INDIA PVT.LTD.	DAMAN	A			



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		I			LEISTRITZ PUMPEN GmbH	GERMANY	A			
		I			KRAL	AUSTRIA	A			
27	SOOT BLOWERS(LRSB, WALL DESLAGGER, ROTARY BLOWER, TEMP PROBE)	I			BHEL	TRICHY	A			
		I			CLYDE BERGMANN	NOIDA	A		UNDER THE SUPERVISION OF M/S CLYDE BERGMANN, GERMANY	
		I			CLYDE BERGEMANN	GERMANY	A			
		I			DIAMOND POWER SPECIALITY LTD	SCOTLAND	A			
		I			DAIEYOUNG MACHINERY	KOREA	A			
28	ELECTRIC HOIST WITH TROLLEY, UNDERSLUNG CRANE	I					A		MAIN BOIS E.G. HOOK, MOTORS AND CRITICAL C&I ITEMS TO BE FROM NTPC APPROVED SOURCES	
		I			CONSOLIDATED HOISTS	SATARA	A		EOT CRANES UPTO 40 MT & HOISTS ABOVE 35 MT	
		I			REWA INDUSTRIES	FARIDABAD	A		EOT CRANES UPTO 25 MT	
		I			GRIP ENGINEERS	HYDERABAD	A		HOIST UPTO 40 MT	
		I			POWER BUILD PVT LTD.	V V NAGAR	A		HOIST UPTO 10 MT	
		I			UNIVERSAL HOIST	THANE	A		HOIST UPTO 20 MT	
		I			ARMSEL MHE PVT LTD	BANGALORE	A		UP TO 20 MT	



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		I			ANUPAM INDUSTRIES	VITHAL, UDYOGNAGAR	A		EOT CRANES UPTO 50 MT	
		I			TRACTOR TRIFOR	FARIDABAD	A		HOIST UPTO 35 MT	
		I			CONSOLIDATED HOISTS	PUNE	A		HOISTS UPTO 20 MT	
		I			DYNAMECH CRANES	THANE , MUMBAI	A		UP TO 20 MT	
		I			HERCULES HOIST LTD.	MUMBAI	A		HOIST UPTO 30 MT	
		I			NAMSUNG MACHINERY	SOUTH KOREA	A		UP TO 25 MT	
		I			CENTURY CRANES	PALWAL	A		EOT CRANES UP TO 30 MT	
		I			MUKUND	PUNE	A			
		I			Mangla Hoist	India (Greater Noida)	A		UPTO 10 MT	
29	LP CONDENSATE PUMP	I			ITT GOULD	USA	A			
		I			FLOW SERVE	USA	A			
		I			SULZER	NAVI MUMBAI	A			
		I			CLYDE PUMPS	GHAZIABAD	A			
		I			PUMPSense FLUID ENGG. PVT. LTD	HOWRAH	A			



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30	SCANNER AIR FAN	I			ANDREW YULE CO. LTD	NADIA	A			
		I			ACCEL	AHMEDABAD	A			
		I			PATEL AIRTEMP (I) LTD	GANDHINAGAR	A			
		I			BHEL	RANIPET	A			
		I			CB DOCTOR(IMM)	AHMEDABAD	A			
		I			AIROCHEM ENGINEERING COMPANY	KOLHAPUR	A			
		I			FLAKEWOOD INDIA	CHENNAI	A			
		I			TLT ENGG. PVT. LTD.,	MEHSANA	A			
31	SEAL AIR FAN	I			CB DOCTOR & CO.	AHMEDABAD	A			
		I			ACCEL	AHMEDABAD	A			
		I			TLT INDIA PVT. LTD.,	MEHSANA	A			
		I			PATEL AIRTEMP (I) LTD.,	GANDHINAGAR	A			
		I			BHEL	RANIPET	A			
		I			ANDREW YULE CO. LTD.,	KALYANI NADIA	A			
		I			FLAKTWOOD	SWEDEN	A			



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		I			FLAKEWOOD INDIA	CHENNAI	A			
		I			DRAFT AIR/CHICAGO BLOWERS	AHMEDABAD	A			
		I			REITZ INDIA	CHENNAI	A			
		I			Howden Solyvent (India) Pvt. Ltd	Kanchipuram	A			
		I			NADI AIR TECH P LTD	CHENNAI	A			
32	FURNACE MAINTENANCE PLATFORM(SKY CLIMBER)	I			NY SKYMAN INT. SA	BELGIUM	A			
		I			NV SKCLIMBER EUROPE SA	BELGIUM	A			
		I			DAEO PRECISION IND CO LTD	SOUTH KOREA	A			
33	QUICK ERECT FURNACE SCAFFOLDING	II			BSL	UK	A			
		II			INSTANT UPRIGHT	IRELAND	A			
		II			EASTMAN IMPEX	LUDHIANA	A		CARBON STEEL SCAFFOLDING	
		II			BSL	HARIDWAR	A			
		II			ARUFASE	SPAIN	A			



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34	METALLIC EXPANSION JOINT FOR DUCTS	I			FLEXATHERM EXPANLLOW PVT LTD	VADODARA	A			
		I			FLEXICAN BELLOWS & HOSES PVT LTD	VADODARA	A			
		I			KAY ENGINEERING WORKS	TRICHY	A		MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)	
		I			RAVI STRUCTURALS	TRICHY	A		MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)	
		I			MARUTI FABRICATORS	TANJORE	A		MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)	
		I			K B TECHNOLOGIES	TRICHY	A		MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)	
		I			AURORA SHAPERS	TRICHY	A		MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)	
		I			FLEXICAN DURGA FAB(P) LTD	TRICHY	A		MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)	
		I			SRI DURGA STRUCTURALS	TRICHY	A		MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)	
		I			REGIONAL ENGINEERING ENTERPRISES	TRICHY	A		MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)	
		I			SRI RANGA INDUSTRIES	TANJORE	A		MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)	
		I			ANNAI VAILANKANNI ENGINEERING INDUSTRIES	TANJORE	A		MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)	
		I			ANNAI VAILANKANNI FABRICATORS UNIT-II	TANJORE	A		MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)	
		I			ANNAI VAILANKANNI FABRICATORS UNIT-II	TRICHY	A		MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)	
		I			MECHWELL INDUSTRIES	NASHIK	A			



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35	METALLIC EXPANSION JOINT FOR PIPES	I			METALLIC BELLOWS	CHENNAI	A		UP TO 2200 NB	
		I			LONESTAR	CHENNAI	A		UP TO 2200 NB	
		I			FLEXICON BELLOWS & HOSES	VADODARA	A		UP TO 2200 NB	
		I			FLEXATHERM EXPANLLOW PVT LTD	VADODARA	A		UPTO 2000 NB	
36	LIGHT BONDED MINERAL WOOL	II			PUNJSTAR INSULATION FIBRE COMPANY	BHILAI	A			
		II			SHREERAM EQUITECH	DURG	A			
		II			GOENKA ROCKWOOL (INDIA) LTD	RAIPUR	A			
		II			LLOYDS INSULATION	BHILAI	A			
		II			THERMOCARE ROCKWOOL PVT LTD	RAJNANDGAON	A			
		II			MINWOOL ROCK FIBRES LTD	RAJNANDGAON	A			
		II			LAPINUS ROCKWOOL LTD	GWALIOR	A			
		II			ROCKWOOL INDIA	MEDAK AP	A			
		II			DHANBAD ROCKWOOL INSULATION PVT LTD	DHANBAD	A			
		II			MINSULATE MFG CO. LTD	JAMSHEDPUR	A			
		II			POLYBOND PROJECTS PVT LTD	DURG	A			



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		II			HI-TECH ROCK FIBRE LTD	RAJNANDGAON	A			
		II			ROCKWOOL INDUSTRIES	BHILAI	A			
		II			JAMSHEDPUR MINERAL WOOL	JAMSHEDPUR	A			
		II			ROXUL ROCKWOOL	DAHEJ	A			
37	CLH & VLH	I			BHEL	TRICHY	A			
		I			MID AMERICA	USA	A			
		I			MANNESMANN	GERMANY	A			
		I			ITT	GERMANY	A			
		I			PIPE SUPPORTS	UK / THAILAND	A			
		I			UNISON	SOUTH KOREA	A			
		I			PIPE HANGER SUPPORTS PVT LTD	TANJAVORE	A			
		I			GILLARDINI	ITALY	A			
		I			LISEGA	GERMANY	A			
		I			WOOKWANG	SOUTH KOREA	A			
		I			BERGEN PIPE SUPPORTS INDIA	CHITTOR	A		CLH UP TO C8-32 RANGE( MAXIMUM LOAD 39.70T). IN CASE OF CLH BEYOND THE RANGE OF C7-27(OFF SUPPLIER CATALOGUE) THE SAME SHALL BE SOURCED FROM M/S PIPE SUPPORTS, UK/THAILAND.	



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		I			SANWA TAKI	JAPAN	A			
		I			MH	SPAIN	A			
		I			BROWICK	UK	A			
		I			CARPENTER PATTERSON	UK	A			
		I			CARPENTER PATTERSON INDIA PVT LTD	VELLORE	A		MAXIMUM LOAD: 23877 KG AND MAXIMUM DISPLACEMENT: 220 MM AND UNDER THE SUPERVISION OF M/S CARPENTER PATERSON, UK.	
		I			AAA SUPPORTS PVT LTD	VADODARA	A		MAXIMUM LOAD: 1.5MT AND MAXIMUM DISPLACEMENT: 250MM	
		I			CARPENTER & PATTERSON	RANIPET	A		SUBJECT TO CONDITIONS AND THE INVOLVEMENT OF THEIR PRINCIPALS	
38	CONVENTIONAL VALVES (GATE, GLOBE & CHECK)	I			VELAN INC.	CANADA	A		SINGLE STAGE DRAIN VALVES (FORGED), SIZE UPTO 50MM NB, CLASS UPTO 2680 FOR POWER CYCLE PIPING APPLICATION.	
		I			LEADER VALVES LTD.	JALANDHAR	A		CC NRV UP NB 800, 150# FOR STG PKG.	
		I			BHEL	TRICHY	A			
		I			CRESCENT VALVES	MUMBAI	A		UPTO NB 300 CL 600	
		I			VELAND VALVE CORP.	USA	A		GATE V/V 2-34" CL 900-4500 CAST STEEL GATE V/V 18-48" CH50-800	
		I			VELAN	UK	A		1) GLOBE V/V 1/4"-2" C14500 (2) BONNETLESS GLOBE V/V 1/2-2.5" CI 150-500)	
		I			L&T VALVES	COIMBATORE	A		UP TO CLASS 4500 & GRADE 91	
		I			TRILLIUM FLOW	HUBLI	A		UPTO NB 300 & CL-600, FORGED UPTO NB 50 CL 800	



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		I			FOURESS ENGG. INDIA LTD.,	THANE	A		(1) 10" X600# GATE/GLOBE/CHECK VALVES (2) 16"X300# GATE/GLOBE/CHECK VALVES (3) 24"X150# GATE/GLOBE/CHECK VALVE (4) 2"X800 # FS GATE/GLOBE/CHECK (LIST ) AS PER BSS252 (B) GATE/GLOBE/CHECK VALVES	
		I			NITTON VALVES INDIA PVT. LTD.,	AURANGABAD	A		(1) GATE VALVE: UPTO36" CLASS 600 WCB/WCC (2) GLUBE VALVE: UPTO 16" CLASS 300 WCB/WCC (3) CHECK VALVE : UPTO 12" CLASS 600 WCB/WCC & WC6	
		I			SAMSHIN LTD.,	SOUTH KOREA	A		(1) GATE - 450 NB 3900 SPL CL SA 217 C12A (GR 91) (2) GLOBE (CAST) - 200 NB 3900 SPL. CL FOR SA 217C12 (G 91) (3) GLOBE (FORGED GR 92) - 50 NB 4500 CL GR SA182 F 92 (4) CHECK (CONVENTIONAL VALVES) FOR GATE VALVES	
		I			TOA VALVE ENGGINERING INC.	JAPAN	A		UPTO SIZE 16", CLASS 4500 UPTO C12A/F91 (2) GATE VALVES UPTO SIZE 26" CLASS 2500 UPTO C12A (3) CHECK VALVES UPTO SIZE 14"	
		I			FOURESS ENGG. INDIA LTD.	THANE	A		(1) 10" X600# GATE/GLOBE/CHECK VALVES (2) 16"X300# GATE/GLOBE/CHECK VALVES (3) 24"X150# GATE/GLOBE/CHECK VALVE (4) 2"X800 # FS GATE/GLOBE/CHECK (LIST ) AS PER BSS252 (B) GATE/GLOBE/CHECK VALVES	
		I			BABCOCK VALVES	SPAIN	A		UPTO 2500SPL & SIZE UPTO 10" (2)CAST GLOBE VALVE (CS) CLASS UPTO 2500SPL & SIZE UPTO 3 INCH (3) FORGED GLOBE VALVE (CS) CLASS UPTO 1500 & SIZE UPTO 15" (4)	
		I			FORBES MARSHALL PVT LTD	PUNE	A		CONVENTIONAL VALVES :CAST GATE VALVE (CS) CLASS UP TO 2500SPL & SIZE UP TO 10 INCH CAST GLOBE VALVE (CS) CLASS UP TO 2500SPL & SIZE UP TO 3 INCH	
		I			BABCOCK WILCOX ESPANOLA	SPAIN	A		CONVENTIONAL VALVES -CAST GATE VALVE (CS) CLASS UP TO 2500SPL & SIZE UP TO 10 INCH CAST GLOBE VALVE (CS) CLASS UP TO 2500SPL & SIZE UP TO 3 INCH	
		I			HP VALVES OLDENZAAL B V	NETHERLAND	A		CONVENTIONAL VALVES -CAST GATE VALVE (CS) CLASS UP TO 2500SPL & SIZE UP TO 10 INCH CAST GLOBE VALVE (CS) CLASS UP TO 2500SPL & SIZE UP TO 3 INCH	
		I			Aruna Industrial Products Pvt. Ltd.	MADURAI	A		REFER APPROVAL CONDITION	
39	SAFETY VALVES(SPRING TYPE)	I			DRESSER INDUSTRIES	USA	A			
		I			SAMPELL AG	GERMANY	A			
		I			TYCO (PENTAIR VALVES & CONTROLS	USA	A			
		I			FUKUI SEISAKUSHO CO LTD	JAPAN	A			
		I			RIENEKE GMBH	GERMANY	A		HYDRAULIC TYPE	





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42	BOILER STRUCTURE & FABRICATION ITEMS(MAIN & AUX COLUMNS, CEILING GIRDERS, BUILT-UP BEAMS, BRACINGS & BUCKSTAY), COAL BUNKER	I			M/S. BHEL	TIRUCHIRAPALLI	A		MAIN & AUX COLUMNS, CEILING GIRDERS, BUILT-UP BEAMS	
		I			CAPACITE	WADA, PALGHAR	A		(WELDED & BOLTED TYPE)BOILER PRIMARY STRUCTURES (CEILING GIRDER, MAIN COLUMNS, AUX. COLUMN, BOXES, BUCKSTAY, BRACING, MILL BAY STRUCTURE AND SUPPORT STRUCTURE ETC.)	
		I			SALEM AUTOMECH (INDIA) PVT. LTD.,	SALEM	A		BOILER STRUCTURES, I.E. CEILING GIRDER	
		I			DIAMOND ENGINEERING (CHENNAI) PVT LTD., CHENNAI	KANCHIPURAM	A		FABRICATION OF BOILER STRUCTURES -AWB UNIT-2 FABRICATION OF BOILER STRUCTURES-CEILINER GIRDER, AWB, COLMNS ETC. - BOILER STURCTURES-FABRICATION, TRIAL ASSEMBLY	
		I			SALEM AUTOMECH UNIT-I & UNIT-II	SALEM	A		CEILING GIRDERS	
		I			QUALITY ENGG.WORKS	TRICHY	A		CEILING GIRDERS	
		I			INDOFAB	TRICHY	A		CEILING GIRDERS	
		I			SANTHI ENGG. UNIT-II	PUDUKKUDI	A		CEILING GIRDERS	
		I			MASTERFAB UNIT-II	DEVARAYANERI	A		CEILING GIRDERS	
		I			ARCEOR MITTAL DHAMM PROCESSING PVT LTD	RANIPET	A		(WELDED & BOLTED TYPE)BOILER PRIMARY STRUCTURES (WITHOUT CEILING GIRDER) I.E.MAIN COLUMNS, AUX. COLUMN, BOXES, BUCKSTAY, BRACINGS, MILL BAY STRUCTURE AND SUPPORT STRUCTURE ETC.)	
		I			JSW SEVERFIELD STRUCTURES LTD	BELLARY	A		(WELDED & BOLTED TYPE) BOILER PRIMARY STRUCTURES (WITH OUT CEILING GIRDER) I.E, MAIN COLUMNS, AUX. COLUMN, BOXES, BUCKSTAY, BRACINGS, MILL BAY STRUCTURE AND SUPPORT STRUCTURE ETC.)	
		I			ATMASTCO (P) LTD	DURG	A		(WELDED & BOLTED TYPE) BOILER PRIMARY STRUCTURES (WITHOUT CEILING GIRDER) I.E.MAIN COLUMNS, AUX. COLUMN, BOXES, BUCKSTAY, BRACINGS, MILL BAY STRUCTURE AND SUPPORT STRUCTURE ETC.	
		I			ANG INDUSTRIES	SITARGANJ	A		FABRICATION AND SUPPLY WELDED TYPE BOILER STRUCTURES I.E. MAIN COLUMNS (PLUS AND BOX), AUTO WELDED BEAMS AND BRACINGS.	
		I			INDIANA GRATINGS PVT LTD	PURANDAR	A		FACTORY FABRICATED CIVIL STRUCTURE POWER HOUSE (TG BUILDING ) STRUCTURAL ITEM (MAX SINGLE PIECE SIZE UPTO 15MT) (WELDED & BOLTED TYPE)	
		I			ESSAR HEAVY ENGINEERING SERVICES, (A UNIT OF ESSAR PROJECTS INDIA LTD)	SURAT	A		FABRICATION AND SUPPLY OF BUCKSTAYS	
		I			SIMPLEX ENGINEERING & FOUNDRY WORKS PVT LTD	BHILAI	A		(WELDED & BOLTED TYPE) BOILER PRIMARY STRUCTURES (WITH OUT CEILING GIRDER) I.E, MAIN COLUMNS, AUX. COLUMN, BOXES, BUCKSTAY, BRACINGS, MILL BAY STRUCTURE, AR	



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		I			SIMPLEX ENGG & FOUNDRY WORKS	UNIT 2, BHILAI	A		CEILING GIRDERS	
		I			SEAM INDUSTRIES LIMITED	NAGPUR	A		WELDED STRUCTURE UPTO 15T.FABRICATION AND SUPPLY OF BUNKERS & BUNKER STRUCTURES, BUCKSTAYS AND DUCTS.	
		I			SHIVAM HITECH STEELS PVT. LTD	BHILAI	A		HORIZONTAL BRACE/CIRCULAR HOLLOW SECTION ,BUCKSTAY,DUCTS	
		I			ENESTEE ENGINEERING LTD.,	NAGPUR	A		FABRICATION & SUPPLY OF BUNKERS & BUNKER STRUCTURES ,BUCKSTAY,DUCTS	
		I			SSV ENGINEERS PVT. LTD.,	PUNE	A		COAL SILOS, BUCKSTAY, DUCTS	
		I			ALLIANCE INTEGRATED METALIKS LTD.,	RAJPURA	A		BOILER PRIMARY STRUCTURES (EXCLUDING CEILING GIRDER)	
		I			TECHNOFAB MANUFACTURING LTD.	CHENNAI	A		FABRICATION AND SUPPLY OF BUNKER, BUNKER STRUCTURE, TPS & CONVEYER GALLERIES,DUCTS	
		I			BABY ENGINEERING PVT. LTD.,	THUVAKUDI	A		BOILER PRIMARY STRUCTURES (EXCLUDING CEILING GIRDER) (WELDED & BOLTED TYPE)	
		I			COREFAB PROJECTS PVT LTD.,	BHILAI	A		FABRICATION & SUPPLY OF BOILER PRIMARY STRUCTURES - MAIN & AUX. COLUMNS, BUILT UP BEAM, BUCKSTAYS, BRACINGS, MILL BAY STRUCTURE AND APH SUPPORT STRUCTURE (EXCLUDING CEILING GIRDERS) ,DUCTS	
		I			MIURA INFRASTRUCTURE PVT. LTD	BHILAI	A		BOILER PRIMARY STRUCTURE - MAIN & AUX. COLUMNS, BUILT UP BEAMS, BOXES, BUCKSTAY, BRACINGS, MILL BAY STRUCTURE, APH SUPPORT STRUCTURE (EXCLUDING CEILING GIRDERS) UPTO	
		I			METALFAB HIGHTECH PVT LTD.	NAGPUR	A		FABRICATION AND SUPPLY OF BUCKSTAYS ,DUCTS,(WELDED & BOLTED TYPE), COAL BUNKER	
		I			WHEELS INDIA LTD.	WARDHA	A		MANUFACTURING OF WELDED TYPE STRUCTURES I.E. AUTOWELDED BEAMS BRACING AND COLUMNS (UPTO 15T) ,BUCKSTAY,DUCTS(WELDED & BOLTED TYPE)	
		I			NOVOTECH PROJECTS (I) PVT LTD	KOLKATA	A		BUNKER STRUCTURE, TPS & TRESTLES	
		I			JINDAL STEEL & POWER LTD. (JSPL)	RAIGARH	A		PRIMARY STRUCTURE & CEILING GIRDER (WELDED & BOLTED TYPE)	
		I			AJANTHA FABRICATOR WORKSUNIT-II	PUDUKKOTTAI	A		BOILER PRIMARY STRUCTURES-COLUMNS, BEAMS, BRACINGS AND CEILING GIRDERS (WELDED & BOLTED TYPE)	
		I			FEEDERS LLOYDS	SIKANDRABAD	A		PRIMARY STRUCTURE - MAIN COLUMNS, AUX COLUMNS, BUILT UP BEAMS, BOXES, BUCKSTAY (WELDED & BOLTED TYPE)	



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		I			L&T HEAVY FORGING & SPECIAL STEEL	HAZIRA	A		CEILING GIRDER	
		I			VASAN INDUSTRIES	PUDUKKOTTAI	A		BOILER PRIMARY STRUCTURES(WELDED AND BOLTED TYPE)	
		I			REGIONAL ENGINEERING WORKS	THUVVAKKUDY	A		BOILER PRIMARY STRUCTURE(WELDED AND BOLTED TYPE)	
		I			VRINDA ENGINEERS	PANAGARH, WB	A		COAL BUNKERS	
		I			GREAT INDIA FABRICATORS	YAMUNANAGAR	A		BOILER PRIMARY STRUCTURES EXCLUDING CEILING GIRDER(WELDED AND BOLTED TYPE), LIMITATIONS AS PER APPROVAL CONDITIONS	
		I			Goodluck Steel Tubes	Sikenderabad	A		Buckstay	
		I			GEW	Sikenderabad	A		Buckstay	
		I			JSPL	Angul	A		Boiler Primary Structure (Excluding Ceiling Girder)	
		I			L&T Limited ECC Workshop	Kanchheepuram	A		Boiler Primary Structure (Excluding Ceiling Girder)	
		I			JSPL	Raipur	A		Primary Structure -Ceiling Girder -Sub to approval condition	
		I			Steel Infra Solutions Private Limited(SISCOL)	Bhilai	A		Boiler Primary Structure (Excluding Ceiling Girder) and column directly supporting ceiling girders-Sub to approval condition	
43	ELECTRO FORGED GRATINGS	II			INDIANA GRATINGS PVT. LTD	PUNE	A			
		II			KARDEANAND UDYOG	PUNE	A			
		II			PREMIER POWER PRODUCTS LTD	HOWRAH	A			
		II			BHOLA RAM STEEL PVT. LTD	PATNA	A			



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		II			PINAX STEEL INDUSTRIES PVT LTD	PATNA	A			
		II			GREATWELD STEEL GRATING PVT. LTD	PUNE	A			
		II			VIN FAB ENGG. PVT LTD.,	MUMBAI	A			
		II			Ratan Project & Engineering	Howrah	A			
44	TANKS & VESSELS( IBD, CBD, FLASH TANK ETC)	I			KPHE	SOUTH KOREA	A			
		I			SV TANKS & VESSELS	MUMBAI	A			
		I			PROGEN SYS TECH LTD	CHENNAI	A		UP TO 4 KSC PR	
		I			FAB TECH	PUNE	A			
		I			UNITECH MACHINES LTD	SAHARANPUR	A		UP TO 10 KSC PR	
		I			SEAM IND P LTD	NAGPUR	A		UP TO 10 KSC PR	
		I			SHAKTI HI TECH CONST PVT LTD	CHENNAI	A		UP TO 10 KSC PR	
		I			SOUTHERN HEAVY ENGG & FAB PVT LTD	CHENNAI	A		UP TO 10 KSC PR	
		I			ALTECH INFRASTRUCTURE(I) PVT LTD	ALWAR	A		UP TO 16 KSC PR	
		I			SEAM INDUSTRIES PVT LTD	NAGPUR	A		UP TO 16 KSC PR	



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45	SOOT BLOWER PRESSURE REDUCING VALVES & BLOCK	I			REFER QA C&I LIST		A			
46	FITTINGS(GRADE 91/92)	I			PETROL RACCORD SPA	ITALY	A		FORMED AND FORGED FITTINGS 91/92 GRADE	
		I			BOKOYOUNG METAL CO.	SOUTH KOREA	A		FORGED FITTINGS AS PER SA-182 F92 GRADE (REDUCERS, NOZZLE, HALF COUPLING ETC.)	
		I			TF TECH CO. LTD	SOUTH KOREA	A		FORGED FITTINGS AS PER SA-182 F92 GRADE (REDUCERS, NOZZLE, HALF COUPLING ETC.)	
		I			FLASH FORGE	VIZAG	A		P91 FORMED/FORGED UPTO DIA 273MM & THICK 30MM	
		I			BGH EDELSTAHL SIEGEN GMBH	GERMANY	A		MANUFACTURE AND SUPPLY OF FORGED FITTINGS OF CS, AS AND SS GRADES	
		I			ERNE FITTINGS GMBH	AUSTRIA	A		P-91 FORMED	
		I			GAM RACCORDI SPA	ITALY	A		P-91 FORMED	
		I			TECHNO FORGE SPA	ITALY	A		P-91 FORMED	
		I			MEGA SPA	ITALY	A		92 GRADE FITTINGS (FORGED)	
		I			BASSI LLUIGI SPA	ITALY	A		P-91 FORGED/WELDED	
		I			IBF SPA	ITALY	A		FORMED AND FORGED FITTINGS/P92 GRADE	
		I			ALLIED INT. (TACTUBI RACCORDI SPA, VIA ROMA 150, 29027 PODENZANO)	ITALY	A		P-91 FORMED	
		I			BRUCK STRASSE 16 ENSHEIM	GERMANY	A		P-91 FORGED/WELDED	
		I			SUNGKWANG BEND CO. LTD.,	SOUTH KOREA	A		FITTINGS OF P91 AND OF MTERIAL OTHER THAN P91 OF BOILER	



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		I			TK CORPN. FORGITAL	S KOREA	A		FORMED FITTINGS (ELBOW, TEES, REDUCERS ETC.) OF 92 GRADE.	
		I			FORGITAL	ITALY	A		MANUFACTURING AND SUPPLY OF GRADE 91 FORTGINGS (HOLLOW FORGINGS/MATCHING PIECES WITH 508MM DIA X 75MM THICKNESS STUBS WITH OD 245MM.	
		I			DEE DEVELOPMENT	PALWAL	A		GRADE 91 WITH SIZE/TYPE LIMITATIONS	
		I			CHW FORGE	GHAZIABAD	A		GRADE 92 WITH SIZE/TYPE LIMITATIONS	
		I			FORGIATURA MORANDINI SRL	ITALY	A		GRADE 92 FORGED FITTINGS(REDCERS, TEES & Y-PIECES)	
		I			BHARAT FORGE, PUNE	PUNE	A		GRADE 92 FORGED FITTINGS(REDCERS, TEES & Y-PIECES)	
		I			BOKYOUNG METAL CO.LTD	SOUTH KOREA	A		GRADE 92 FORGED FITTINGS(REDCERS, NOZZLE, HALF COUPLING)	
		I			VIAR SPA	ITALY	A		SEAMLESS FORGED Y-PIECE UP TO GRADE 91	
		I			DEE DEVELOPMENT	PALWAL	A		GRADE 92 WITH SIZE/TYPE LIMITATIONS	
		I			Goodluck Engineering Co.	Dadri	A		Forged Fittings (91/92 grade)	
47	AUX PRDS SYSTEM (INCLUDING CONTROL VALVE)	I			REFER C&I LIST					
48	CHEMICAL DOSING SYSTEM (SKID ASSY) FOR SG SCOPE INCLUDING AUX BOILER	I			POWER PIPING	TRICHY	A			
		I			V K PUMPS	MUMBAI	A			
		I			MILTON ROY	CHENNAI	A			



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		I			TECHNO CONSULTANTS	MUMBAI	A			
		I			POSITIVE METERING SYSTEM	NASIK	A			
		I			PSI ENGG SYSTEM	CHENNAI	A			
		I			Prorites Equipments Pvt. Ltd.	Pune	A		LP Chemical Dosing System (NaOH/Ammonia/Hydrazine)	
49	SG CW BOOSTER PUMP/ ECW PUMP	I			KBL	WADI	A			
		I			WPIL LTD	GHAZIABAD	A			
		I			SAM TURBO	COIMBATORE	A			
		I			KSB	PUNE	A			
		I			BEST & CROMPTON ENGG LTD	CHENNAI	A			
		I			JYOTI LTD	BARODA	A			
		I			FLOWMORE	GHAZIABAD	A			
50	COAL BUNKER	I					A		REFER BOILER STRUCTURE LIST	
51	LUBE OIL SYSTEM FOR MILLS	I			LINCOLN HELIOS	BANGALORE	A			



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		I			T A HYDRAULICS	HYDERABAD	A			
		I			CENLUB INDUSTRIES	FARIDABAD	A			
		I			BHEL	HYDERABAD	A			
		I			BIJUR DELIMON INDIA PVT LTD	PUNE	A			
		I			UNIQUE ENGINEERING ENTERPRISE P LTD	HYDERABAD	A			
		I			SOUTHERN LUB	BANGALORE	A			
52	CERAMIC LINED BEND COAL PIPES	II			BHEL EDN	BANGALORE	A			
		II			BMW	HATHRAS/ROURKEE	A			
		II			CARBORANDUM UNIVERSAL	HOSUR	A			
		II			BHEL IP	JAGDISHPUR	A			
53	KNIFE EDGE GATE VALVES AT MILL OUTLET AND BURNER INLET	II			GALAXY CONTROLS PVT LTD	CHENNAI	A		UP TO SIZE 26"	
		II			ORBINOX INDIA PVT LTD	COIMBATORE	A		UP TO SIZE 30"	
		II			BRAY CONTROLS	CHENNAI	A		UP TO SIZE 28"	
		II			JASH ENGG LTD	INDORE	A		UP TO SIZE 30"	



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54	VIS FOR FANS	I			GERB	BANGALORE	A			
55	LOS FOR FD, PA & ID FANS	I			PSI ENGG	CHENNAI	A			
		I			CENLUB	FARIDABAD	A			
		I			LINCOLN HELIOS	BANGALORE	A			
		I			BHEL	RANIPET	A			
		I			SOUTHERN LUBRICATION	BANGALORE	A			
		I			TA HYDRAULICS	HYDERABAD	A			
56	GATES AND DAMPERS	I			BACHMANN	FARIDABAD	A			
		I			FOURESS INDIA	BANGALORE	A			
		I			INDIRA DAMPERS	RANIPET	A			
		I			KAMAL ENGG	YAMUNANAGAR	A			
		I			BACHMANN	CHENNAI	A		GUILLOTINE GATE(2700 MM HEIGHT)	



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		I			DAMPER TECHNOLOGY INDIA PVT LTD	COIMBATORE	A			
		I			Flexatherm Expanflow Pvt.Ltd	Block No-400/B, Karjan, Vadodara	A		Gates & Dampers(Flow Area/Cross-sectional area upto 5600mm X 5600mm)	
57	PA Fans	I			Bharat Heavy Electrical Limited	Ranipet	A			
		I			L&T- Howden Private limited	Hazia	A			
		I			TLT-Turbo GmBH	Germany	A			
		I			Howden	Denmark	A			
58	ID Fans	I			Bharat Heavy Electrical Limited	Ranipet	A			
		I			TLT Turbo GmBH	Germany	A			
		I			L&T Howden Private Limited	Hazira	A			
		I			Howden	Denmark	A			
59	FD Fan	I			Bharat Heavy Electrical Limited	Ranipet	A			
		I			L&T Howden Private Limited	Hazira	A			
		I			TLT-Turbo GmBH	Germany	A			



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		I			Howden	Denmark	A			
60	Coal Pulverisers	I			BHEL	Hyderabad	A			
		I			L&T MHPS Boilers Pvt. Ltd.(LMB) (Incl. Manufacturing Facility of L&T)	Hazira	A			
		I			Loesche Energy system India pvt ltd.	Chennai	A			
		I			Doosan Heavy Industries & Construction Co. Ltd	South Korea	A			
61	Raw Coal Feeders	I			Bharat Heavy Electricals Limited	Trichy	A			
		I			Schenck Process (Stock Redler India Private Limited, India)	Bengaluru	A			
		I			Merrick Industries Pvt. Ltd., India	Bengaluru	A			
		I			Yamato Scale	Japan	A			
		I			FLSmith	Haryana	A			
62	Boiler Start Up Drain Re-Circulation Pump	I			Torishima Pump Mfg Co. Ltd.,	Japan	A			
		I			Hayward Tyler Limited	UK	A			
		I			KSB AG	Germany	A			



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63	Air Pre-Heaters	I			Bharat Heavy Electricals Limited	Ranipet	A			
		I			L&T Howden Private Limited	Hazira	A			
		I			Arvos India Pvt.LTd.	Chennai	A			
64	Auxiliary Boiler	I			ISGEC John Thampson (IJT)	Yamuna Nagar	A			
		I			Thermax Babcock & Wilcox Ltd.	Pune	A			
		I			Bharat Heavy Electricals Limited & BHEL (HVPB)	Trichy, Vizag	A			
65	ESP	I			Bharat Heavy Electricals Limited	Ranipet	A			
		I			Larsen & Toubro Limited	India	A			
		I			GE Power India	India	A			
<b>Main Contractor approved sources</b>										
1	ALUMINIUM CLADDING	III			Main Contractor approved sources					
2	NON IBR PIPING / LP PIPING - PRESSURE UP TO 10 KSC	III			Main Contractor approved sources					
3	CASTABLE REFRACTORY	III			Main Contractor approved sources					



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4	POURABLE INSULATION	III			Main Contractor approved sources					
5	STEEL STRUCTURE FOR DUCTS, FURNACE ENCLOSURE, GUIDE, STAIRS & LADDERS, HANDRAILS, PLATFORMS	III			Main Contractor approved sources					
6	SILENCERS	III			Main Contractor approved sources					
7	COAL PIPES & BENDS (WITHOUT CERAMIC LINERS)	III			Main Contractor approved sources					
8	FITTINGS(CS, SS & AS UP TO GRADE 22)	III			Main Contractor approved sources					
9	ELECTRIC HOIST WITH TROLLEY, UNDERSLUNG CRANE < 05 TON CAPACITY	III			Main Contractor approved sources					
10	DUCTS	III			Main Contractor approved sources					
11	AIR RECEIVER TANK	III			Main Contractor approved sources					
12	COUPLING FOR FANS	III			Main Contractor approved sources					
13	SCAPH	III			Main Contractor approved sources					
14	OXYGEN DOSING SYSTEM	III			Main Contractor approved sources					
15	CE & DE SUSPENSION ASSEMBLY WITH RAPPING(MECHANICAL) MECHANISM	III			Main Contractor approved sources					
16	PERFORATED GD PLATE/SCREEN	III			Main Contractor approved sources					
17	ESP SUPPORT STRUCTURE (COLUMNS & ROOF BEAMS MANUFACTURED FROM ROLLED SECTIONS), CASING	III			Main Contractor approved sources					
18	ESP- MECH SAFETY INTERLOCK	III			Main Contractor approved sources					
19	Spray header for FGD	III			Main Contractor approved sources					



Project/ पायोजना : 2 X 660 MW SUPER CRITICAL THERMAL POWER PROJECT, HTPS, KORBA WEST  
 Package/ पैकेज : EPC  
 Supplier/ आपूर्तिकर्ता:  
 Contract No./ अनुबंध सं.:

INDICATIVE LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL  
 ब्रवालिटी प्लान तथा सब -वेंडर के अनुमोदन सहित मदों की सूची  
 SUB-SYSTEM उप-प्रणाली: SG (MECH.)

DOC. NO./ दस्तावेज सं.:  
 REV. NO.:00  
 DATE/ तिथि : 25.09.2023  
 PAGE/ पृष्ठ :

S. N. क्र.सं.	Item / मद	QP / Insp. Cat. क्यूपी/ निरी. श्रेणी.	QP No. / क्यूपी. सं.	QP Sub. Schedule क्यूपी उप.अनुसूचि	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	Place/ स्थान	Sub-suppliers approval status / category उप आपूर्तिकर्ता के अनुमोदन की स्थिति	Sub-supplier Details submission schedule/	Remarks/ टिप्पणी	Provenness clause (Refer Note-1)
20	Mist eliminators for FGD	III			Main Contractor approved sources					
21	STEEL STRUCTURE FOR DUCTS, FURNACE ENCLOSURE, GUIDE, STAIRS & LADDERS, HANDRAILS, PLATFORMS	III			Main Contractor approved sources					
22	HANGER & SUPPORTS( OTHER THAN CLH & VLH) RIGID HANGERS	III			Main Contractor approved sources					
23	SNUBBERS	III			Main Contractor approved sources					
24	Oil Preheater & Pressuring Skid	III			Main Contractor approved sources					

NOTE -1 : For final Sub-QR approval , document required to be submitted as per Sub-QR requirements given in the specification.

NOTE-2: Vendors under 'A' are approved and accepted by NTPC with/without conditions in the past. Similar conditions as the case may be for the vendor shall be applicable for this project and tied up in the quality plan.

NOTE-3: Predespatch inspection for Alloy/SS Grades needs to be tied up by Main contractor or Third-party inspection agency as required.

NOTE-4 : ( S) Review of Mill TC for Raw Material to be done by NTPC and shall be included in the QP of corresponding equipment.

NOTE-5: Raw Material for 91 and above Grade Material Fittings to be from NTPC approved sources as per Raw Material vendor List.

NOTE-6:For Motorized/Pneumatic actuated valves the suppliers for actuators shall be from NTPC approved list, Refer NTPC C&I list.

LEGENDS/ संकेतिका

SYSTEM SUPPLIER/SUB-SUPPLIER APPROVAL STATUS CATEGORY /प्रणाली आपूर्तिकर्ता / सब -वेंडर की स्वीकृति की स्थिति की श्रेणी (SHALL BE FILLED BY NTPC एनटीपीसी द्वारा भरा जाएगा)

A – For these items proposed vendor is acceptable to NTPC. To be indicated with letter "A" in the list along with the condition of approval, if any./ इन मदों के लिए प्रस्तावित वेंडर एनटीपीसी को स्वीकार्य है। अनुमोदन की शर्त, यदि कोई हो, के साथ-साथ पत्र "क" में इंगित किया जाए।

DR – For these items "Detailed required" for NTPC review. To be identified with letter "DR" in the list. एनटीपीसी द्वारा इन मदों की समीक्षा के लिए "विस्तृत ब्यौरे की आवश्यकता" होगी। सूची में "DR" पत्र में इंगित किया जाना चाहिए।

QP/INSPN CATEGORY: क्यूपी / निरीक्षण की श्रेणी:

CAT-I/ श्रेणी-I: For these items the Quality Plans are approved by NTPC and the final acceptance will be on physical inspection witness by NTPC. इन मदों के लिए गुणवत्ता योजनाओं को एनटीपीसी द्वारा अनुमोदित किया जाता है और एनटीपीसी द्वारा आत्म स्वीकृति प्राप्त करने के बाद ही उपरोक्त मदों के आधार पर स्वीकृति प्राप्त होगी।

CAT-II / श्रेणी-II: For these items the Quality Plans approved by NTPC. However no physical inspection shall be done by NTPC. The final acceptance by NTPC shall be on the basis review of documents as per approved QP. इन मदों के लिए गुणवत्ता योजनाओं को एनटीपीसी द्वारा अनुमोदित किया जाता है। हालाँकि एनटीपीसी द्वारा कोई भीतिक निरीक्षण नहीं किया जाएगा। एनटीपीसी द्वारा अंतिम स्वीकृति अनुमोदित क्यूपी के अनुसार दस्तावेजों की समीक्षा के आधार पर दी जाएगी।

CAT-III/ श्रेणी-III : For these items Quality control to be exercised as per Main contractor Quality Assurance System. The final acceptance by NTPC shall be on the basis of Certificate of Conformance (COC) by Main Contractor.

UNITS/WORKS इकाइयाँ / कार्य: Place of manufacturing/ निर्माण का स्थान Place of Main Supplier of multi units/works/बहु- इकाइयों / कार्य के मुख्य सप्लायर का स्थान.

		PROJECT : CSPGCL 2X660MW Super Critical Thermal Power Project, HTPS Korba West				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB SUPPLIER APPROVAL			REVISION NO : 00		
		PACKAGE : TG PACKAGE							DATE :22.08.2023		
		CONTRACTOR:							SUB SECTION: QA-TG(MECH)		
		CONTRACT NO :									
Sr No	Item Description	QP Inspection Category	QP No	QP submission SCH	Proposed Sub Supplier	Country	SS Approval_Status	SS Detail Sub.SCH	Remark	Package Applicable	Provenness Clause (Refer Note-1)
1	HP/IP Outer Casing Casting (1.25Cr & 2.25Cr)	I			Voestalpine	Austria	A				
					JCFC	Japan	A				
					JSW	Japan	A				
					GE	Poland	A				
					Kobe Steel	Japan	A				
					Starwire	Faridabad	A				
					Sande Stahlguss GmbH	Germany	A				
					ISGEC	Muzaffarnagar	A			Weight upto 38 T, 1.25 Cr Grade	
					LMB Heavy Casting Unit	Hazira	A				
					BHEL-CFFP	Haridwar	A				
		Acciaiera Fonderia Cividale S.p.A.	Italy	A			Weight Upto 42 T approx. (9Cr)				
2	HP/IP Inner Casing Casting including Turbine admission valves (9 Cr)	I			Voestalpine	Austria	A				
					JCFC	Japan	A				
					JSW	Japan	A				
					GE	Poland	A				
					Kobe Steel	Japan	A				
					Starwire	Ballabgarh	A			Weight Upto 22T	
					Sande Stahlguss GmbH	Germany	A				
					Gruppo Cividale	Italy	A			Weight Upto 20T	
					LMB Heavy Casting Unit	Hazira	A				
					BHEL-CFFP	Haridwar	A				
		Sande Groditz	Germany	A			Weight Upto 20T				
		Acciaiera Fonderia Cividale S.p.A.	Italy	A			Weight Upto 38 T approx.				
3	HP/IP Inner & Outer Casing including Turbine admission valves Machining	I			LMTG	Hazira	A				
					MHPS	Japan	A				
					FUZI ELECTRIC	Japan	A				
					ROSSEL DUSO	Venice	A				
					Toshiba works	Japan	A				
					TJPS	Chennai	A				
					GE	Sanand	A				
					BRUNO PRESEZZI	Italy	A				
					NUGO ROMANO	Italy	A				
					BHEL (HEEP)	Haridwar	A				
					Siemens	Germany	A				
					GMW	Germany	A				
					Sharp	Pune	A			HP/IP Inner Casing	
					BILFINGER MAS.GMBH	Austria	A			Previous Name:MCE	
		Haar Mechanische Fertigung GmbH & Co. KG	Germany	A			Turbine Valve machining				
4	HP/IP/LP Turbine shaft Forging	I			JCFC (Japan Casting & Forging Corp.)	Japan	A				
					SAARSCHMIEDE	Germany	A				
					JSW	Japan	A				
					Pacific Steel Mfg Co Ltd	Japan	A				
					Schmiedewerke Gröditz	Germany	A			For HP/IP	
					Buderus Edelstahl	Germany	A			For HP/IP	
					Cruesot Forge	France	A			For HP/IP	
		Kobe Steel	Japan	A			For HP/IP				

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					Energomash	Ukraine	A				
					ACCIAI Speciali Terni S.P.A	Italy	A				
					Doosan Heavy Industries	S.Korea	A		For LP		
					SDF	Italy	A				
5	Turbine shaft machining	I			Siemens	Germany	A				
					Franco Tosi	Italy	A		HP/IP		
					BHEL (HEEP)	Haridwar	A				
					ROSSEL DUSO	Italy	A				
					BRUNO PRESEZZI	Italy	A		HP/IP		
					NUGO ROMANO	Italy	A				
					MCE MAP (Voist Alpine)	Austria	A		HP		
					GE	Poland/ Switzerland/ France/ Sanand	A				
					Toshiba	Japan	A				
					TJPS	Chennai	A				
6	HP/IP/LP Stationary & Moving Blades Bar stock	I			MHPS	Japan	A				
					FUZI ELECTRIC	Japan	A				
					Böhler	Austria	A				
					Bohler Schmiedetechnik	Germany	A				
					WELZEWERKE REVENE	Germany	A				
					DIODO	Japan	A				
					Hitachi	Japan	A				
					Starwire	Ballabgarh	A				
					Gloria Material Technology Corp	Taiwan	A				
					Acciaierie Valbruna S.p.a.	Italy	A				
					BGH Edeltahl GmbH	Germany	A				
					Carpenter Technology Co.	USA	A				
					Daido	Japan	A				
					Sz-metal Ravne D.o.o.	Slovenia	A				
		Einsal	Germany	A							
		Walzwerke Einsal	Switzerland	A							
		Nichia Tanko Co Ltd	Japan	A		LP Blades					
7	HP/IP/LP Stationary & Moving Blades Machining(From Bar)	I			SET	Hungary	A				
					MHPS	Japan	A				
					Leistriz-Numberg	Germany	A				
					Energietechnik Einsal	Germany	A				
					Prawest	Germany	A		FOR LP STATIONARY BLADES		
					ZEMA	Italy	A		FOR LP STATIONARY BLADES		
					LMTG	Hazira	A				
					GE	Switzerland/ Germany/ Sanand	A				
					Enem Excel	Hyderabad	A				
					TJPS	Chennai	A				
					Toshiba	Japan	A				
					BHEL (HEEP)	Haridwar	A				
					Siemens	Germany	A				
		QTPL	Bangalore	A		For Guide Blades					

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					AZAD ENGG	Hyderabad	A							
8	LP Forged Blades(Drop)-Material	I*/II			MHPS	Japan	A							
					GE	Switzerland	A							
					Leistritz Turbinenkomponenten	Germany	A							
					SMB SA	Switzerland	A			For L1 stage(Last but one) blades				
					C-BLADE SPA	Italy	A							
					BOHLER	Austria	A							
					Fine Forge*	Hyderabad	A							
					PIETRO ROSA	Italy	A							
9	LP Forged Blades(Drop) Machining	I			MHPS	Japan	A							
					C Blade	Italy	A							
					Sumitomo (Manfg. by Sumiju Precision Forgings)	Japan	A							
					PIETRO ROSA	Italy	A							
					Leistritz Turbinenkomponenten	Germany	A							
					Bohler	Austria	A							
					Toshiba	Japan	A							
					BHEL-HEEP	Haridwar	A							
10	LP Cast Blades(material) & Machining	I			ALSTOM	Switzerland	A							
					AZAD ENGG	Hyderabad	A							
					Zollern	Germany	A							
					Consolidated Precision Product	Belgium	A			Previous Name:ESCO				
					Formetal (cismocisco)	Italy	A			For casting				
					Juergens	Germany	A			For casting				
					GE Power Systems	Germany	A							
					IPCL	Bhavnagar	A							
11	LP Hollow Blades	I			EXCEL HITECH	Ghaziabad	A		For casting					
					AK ALLOYS	Ahmedabad	A							
					PTC	Lucknow/ Mehsana	A							
					AMBE ENGG- Binder	Ghaziabad Switzerland	A A			For Machining only				
					Prime Hi-Tech Engineering Limited	Naidupet, AP	A							
			12	LP Inner/Outer casing Fabrication	I			LMTG	Hazira	A				
								BHEL (HEEP)	Haridwar	A				
								SHARP	Pune	A				
		Shape Engg.				Haridwar	A							
		GE				Croatia/ Shahabad	A							
		D&N				Germany	A							
		KCP				Chennai	A							
		ISGEC( Weight upto 38T)				Yamunanagar	A							
13	LP Inner casing Casting (GGG40)	I			PT. Siemens Indonesia	Indonesia	A							
					GE Power sp. Z.o.o	Poland	A							
					L&T	Kansbahal	A							
					FWH Freidrich Wilhems-Hute GmBH	Germany	A							
					Heidenheimer Giessen GmBH	Germany	A							
					Pilsen Steel	Czech	A							
		Buderus Spezialguss GmBH	Germany	A										

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					Metalodlew	Poland	A		Material EN-GJS-400-18 RT, up to 10.5 MT approx.			
14	LP Inner/Outer casing Machining	I			LMTG	Hazira	A					
					BHEL (HEEP)	Haridwar	A					
					TJPS	Chennai	A					
					MHPS	Japan	A					
					SHARP	Pune	A					
15	LP Crossover Pipe Assembly	I			LONE STAR	Chennai/ Cheyyar	A					
					Flexatherm Expanllow Pvt. Ltd.	Vadodara	A		Up to 2000NB			
					Hatec	Germany	A					
					Rohr-und Anlagenbau (ROBA)	Germany	A					
					Seonghwa	S Korea	A					
					Dee Development	Ballabgarh	A					
					HKR	S Korea	A					
					Babylon	Germany	A					
					Eichhoff	Germany	A					
					LMTG	Hazira	A					
16	Electro-Hydraulic Actuators	I			Mech engineers	Valsad	A					
					MHPS	Japan	A					
					GE	Germany	A					
					Horst Thiele	Germany	A					
					Bosch Rexroth	Germany	A					
17	Hydraulic Power Pack Unit	I			MOOG	Japan	A					
					Bosch Rexroth	Germany	A					
					Bosch Rexroth	Ahmedabad	A					
					Hydac	Germany	A					
					Hydac	Coimbatore	A					
18	Actuator & Valve For CRH-NRV & QC-NRV	I			Weir	USA	A					
					Cesare Bonetti	Italy	A					
					BABCOCK	Spain	A					
					ADAMS	Germany	A					
					BHEL	Trichy	A			Upto 850NB & Class upto 900 special		
19	HP/IP/LP Shaft Seals	II			SEMPELL	Germany	A					
					TPT	S Korea	A					
					Starwire	Ballabgarh	A			For INGOTS		
					Kolhapur Steel	Kolhapur	A					
					Silbitz Guss	Germany	A					
					StahlgussSaar	Germany	A					
					GE	Sanand	A					
					PMT	Pune	A					
					Wellbore	Ahmedabad	A					
					Bharat Forge	Pune	A					
					Indo air	Ahmedabad	A					
					Toshiba	Japan	A					
					GE	Germany	A			For Thrust Bearing		
					Kingburry	USA	A					
				Omega	Bhopal	A						
				Eurobearing	Italy	A						

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20	TG Bearings	I			Miba Industrial Bearings Germany GmbH (Erstwhile John Crane Bearing)	Germany	A				
					BHEL (HEEP)	Haridwar	A				
					Wuakesha Bearing	UK	A				
					Euro Bearings	Faridabad	A				
					Kingsburry	USA	A				
21	MOP/EOP	I			Allweiler	Germany	A				
					ABB	Switzerland	A				
					Bosch Rexroth	Germany/ Switzerland	A				
					Toshiba	Japan	A				
					Ebara Yoshikura Hydrotec Ltd.	Japan	A				
22	Jacking Oil Pump	I			Bosch Rexroth	Germany /Switzerland	A				
					Allweiler	Germany	A				
					Leistritz	Germany	A				
					MITTEN MANUFACTURING, INC	USA	A				
					PARKER HANIFIN	Japan	A				
23	Oil Purification Unit	I			Allweiler	Daman	A				
					Facet	Spain	A			Coalescer Type	
					Pall Corporation	USA	A			For control fluids	
					Alfa Laval	Pune	A			Centrifuge Type	
					Hilliard	USA	A			Coalescer Type	
					Kaydon Filtration	USA	A			Coalescer Type	
					Westfalia Separator India Pvt.Ltd.	Germany/ Bangalore	A				
					Rotring	Germany	A				
24	Duplex Oil Filter With Oil Changeover Valve	I			Rockfin Group	Poland	A				
					Hydac	Germany	A				
					Boll & Kirch	Germany	A				
25	Turbine Integral Piping	I			Rockfin	Poland	A				
					BHEL Piping Center	Chennai	A				
					BHEL, Power Plant Piping Unit	Thirumayam	A			Up to grade P92	
					BHEL	Trichy	A			Up to grade P92	
					Unitech	Saharanpur	A				
					Bend Joints	Bhopal	A			Up to grade P22	
					Pal Engineering	Yamunanagar	A			Up to Grrade P91	
					Seonghwa	S Korea	A				
					L&T Piping Center	Hazira	A				
26	Oil Module including Central Lubrication System	I			Gujarat Infrapipes Private Limited	Vadodara	A			Up to grade P22	
					Dee Development	Ballabgarh	A			Up to grade P92, Size OD 219.1 X WT 58 mm	
					Kelag	Switzerland	A				
					VDL Delmas	Germany	A				
					Hydac India Pvt. Ltd.	Coimbatore	A				
		AEL	Germany	A							
		Flenco	Italy	A							

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					Hydac	Germany	A				
					King Dynamics	Switzerland	A				
					Southern Lubrication	Bangalore	A				
					ENPRO	Pune	A				
27	Thermal Insulation	II			Eugen Arnold GmbH	Germany	A				
					Heinrich Tapp GmbH	Germany	A				
					Lloyds Insulation	India	A				
					Minwool Rock Fibre	Bhilai	A				
					Thermocare	Rajnandgaon	A				
					Dhanbad Rockwool Insulation	Dhanbad	A				
					Minsulate Manufacturing Co.	Jamshed	A				
28	Condenser (water cooled) (Sub QR Item)	I			MHI	Japan	A				
					THERMAL ENGG INTERNATIONAL (TEI)	USA	A				
					TJPS	Chennai	A				
					TOSHIBA CORPORATION LTD	Japan	A				
					LMTG	Surat	A				
					BHEL	Haridwar	A				
					ABFPL	Sanand	A				
					GE	Switzerland	A				
29	Condenser Fabricator (water cooled)	I			ISGEC	Yamunanagar	A				
					GE Power india Ltd.	Durgapur	A				
					Godrej & Boyce Manufacturing Company Ltd.	Mumbai	A				
					TEMA India Ltd.,	Thane	A				
30	HP Heaters (Sub QR Item)	I			TOSHIBA CORPORATION LTD	Japan	A				
					TJPS	Chennai	A				
					SPX Heat Transfer Inc. (Erstwhile Yuba Heat Transfer)	USA	A				
					GE	France	A				
					ABFPL	Sanand	A				
					BHI	S Korea	A				
					THERMAL ENGG INTERNATIONAL	USA	A				
					HOLTEC	USA	A				
					L&T	Hazira	A				
					BHEL	Hyderabad	A				
31	LP/HP Heater Fabricator	I			ISGEC	Yamunanagar	A				
					Godrej & Boyce Manufacturing Company Ltd.	Mumbai	A				
					TEMA India Ltd.,	Thane	A				
32	LP Heaters (Sub QR Item)	I			TOSHIBA CORPORATION LTD	Japan	A				
					TJPS	Chennai	A				
					SPX Heat Transfer Inc. (Erstwhile Yuba Heat Transfer)	USA	A				
					GE	Switzerland	A				
					ABFPL	Sanand	A				

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					BHI	S Korea	A				
					THERMAL ENGG INTERNATIONAL	USA	A				
					BHEL	Hyderabad	A				
					L&T	Hazira	A				
					HOLTEC	USA	A				
33	Condensate Extraction Pump (CEP) (Sub QR Item)	I			KSB	Chinchwad, Pune	A				
					BHEL	Hyderabad	A				
					SULZER Pumps	Mumbai	A				
					Clyde Pumps India pvt. Ltd.	Ghaziabad	A				
					GARDNER Denver/Nash	Germany	A				
34	Condenser Air Evacuation Pumps (Sub QR Item)	I			GARDNER Denver/Nash	Pune	A				
					Tsurumi pumps	Japan	A				
					Edwards	UK	A				
35	Deaerator (Sub QR Item)	I			TJPS	Chennai	A				
					BHEL	Hyderabad	A				
					BGR	Chennai	A				
36	Deaerator Fabricator	I			Godrej	Mumbai	A				
					ISGEC	Yamunagar	A				
					Altech	Bhiwadi	A				
					TEMA India Ltd.,	Mumbai	A				
					Bharat Heavy Plate & Vessel Ltd.	Vishakhapatnam	A				
					BGR Energy System Ltd.	Chennai	A				
37	Booster Pump	I			KSB	Germany	A				
					KSB	Pune	A				
					Sulzer Pumps	Mumbai	A				
					Sulzer	UK	A				
					Flowserve	Switzerland	A				
					FLOWSERVE	Coimbatore	A				
					Flowserve	Spain	A				
					Hitachi	Japan	A				
					Ebara Corporation	Japan	A				
					MHI	Japan	A				
					BHEL	Hyderabad	A				
38	Boiler Feed Pump ( BFP) (Sub QR Item)	I			Ebara Corporation	Japan	A				
					Flowserve	Spain	A				
					KSB	Germany	A				
					KSB	Pune	A				
					Mitsubishi Heavy Industry	Japan	A				
					HITACHI PLANT TECHNOLOGY	Japan	A				
					BHEL	Hyderabad	A				
					Sulzer Pumps	Mumbai	A				
					SULZER	UK	A				
40	Drive Turbine for RFP	I			Siemens	Germany	A				
					Hitachi	Japan	A				
					GE Thermodyne	France	A				
					GE India Industrial Pvt. Ltd.	Pune	A				
					Toshiba	Japan	A				

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		CONTRACTOR:							SUB SECTION: QA-TG(MECH)		
		CONTRACT NO :									
Sr No	Item Description	QP Inspection Category	QP No	QP submission SCH	Proposed Sub Supplier	Country	SS Approval_Status	SS Detail Sub.SCH	Remark	Package Applicable	Provenness Clause (Refer Note-1)
					TJPS	Chennai	A				
					Power machines(Kaluga)	Russia	A				
					BHEL	Hyderabad	A				
					MHI	Japan	A				
					Skoda	Czech republic	A				
					CCI	Sweden/ Switzerland/ Czech Republic	A				
41	HP Bypass Valves (Sub QR Item)	I			CCI	Chittor,AP	A				
					Bomafa	Germany	A				
					Bomafa	Ahmedabad	A				
					CCI	Sweden/ Switzerland/ Czech Republic	A				
					CCI	Chittor,AP	A				
					BOMAFSA	Ahmedabad	A				
					Welland & Tuxhorn	Germany	A				
					BOMAFSA	Germany	A				
43	Condensor On-load Tube cleaning system (COLTCS) (Sub QR Item) (as applicable)	I			GEA BGR	Chennai	A				
					Multitex Filtration	Greater Noida	A				
44	Hydraulic Coupling for BFP	I			Voith	Hyderabad	A				
					Voith	Germany	A				
					Pipe Support	Chennai	A				
					Lisega	Germany	A				
					Lisega	Ahmedabad	A		Load upto to 100KN		
					Seonghwa	S Korea	A				
					Pipe supports	UK	A				
					GILLARDINI	Italy	A				
					BERJEN	Chittor,AP	A				
					NHK SPRIING	Japan	A				
					Yamashita Seisakusho Co. Ltd	Japan	A				
					MHI	Japan	A				
					SANWA TEKKI CORPORATION	Japan	A				
					CARPENTER AND PETERSON	UK	A		CLH Upto 30 T AND VLH Upto 32 T		
					CARPENTER & PATERSON INDIA PRIVATE LTD.	Vellore	A		CLH Upto 23.8T & VLH Upto 20.7T		
					AAA Supports Private Limited	Vadodara	A		For CLH, VLH and Rigid supports Max. Load 1.5 MT		
					Carpentor & Patterson	USA/Thailand	A				
					Lonestar	Chennai	A		For size up to NB9200		
					Flexicon	Vadodara	A		For size upto 2200NB		
					Witzemann	Germany	A				
					Munro & Miller	UK	A				
					Flexatherm	Vadodara	A		For size upto 8000NB		
46	Metallic Expansion Joint	I			Bird Precision	UK	A				


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					Metallic Bellows	Chennai	A		For size up to 1600 NB		
					M B Metallic Bellows	Chennai	A		For size upto 2200NB		
					Athulya Bellows and Engineering Pvt. Ltd	Vadodara	A		For size up to NB 3400		
					HKR	S Korea	A				
					BHR	Germany	A				
					Seonghwa	S Korea	A				
					Finow	Germany	A				
					TOSHIBA	Japan	A				
47	HP Piping -Fabrication (Based on Design and Drawings of Qualified Vendor)	I			BHEL	Piping Center, Chennai &Thirumayam	A				
					L&T	Hazira	A				
					Dee development	Ballabgarh	A				
					Bendtec	USA	A				
					Wyman-Gordon	USA	A				
					Sumitomo	Japan	A				
					Tenaris	Italy	A				
					V&M	Germany	A				
					V&M	France	A				
					IBF	Italy	A				
					SUNGWANG BEND	S Korea	A		UP TO 24INCH IN CS/AS MATERIAL		
					Productos Tubulares	Spain	A				
					JFE	Japan	A				
					Bentler	Germany	A				
					TK CORPORATION	S Korea	A		UP TO 24INCH IN CS MATERIAL		
					TUBOS REUNIDOS	Spain	A				
					MEGA	Italy	A		For Fittings Only		
					Petrol Raccord,	Italy	A		UP TO 24INCH IN CS MATERIAL & UP TO 18 INCH IN AS MATERIAL		
					Benkan Japan KK	Japan	A		UP TO 24INCH IN CS MATERIAL		
49	Elastomer Large Bellows or Flexibles Rubber Bellows	I			Cori Engineers Pvt. Ltd.	Chennai	A		UP TO 2700 NB		
					SRM Ecoflex	Kolkata	A		UP TO 2700 NB		
					KSB	Germany	A				
					Nasosenergomash	Ukraine	A				
					Sulzer Pumps	Mumbai	A				
					KSB	Pune	A				
					Hyundai	S Korea	A				
					KBL	Pune	A				
					Flowsolve	Coimbatore	A				
51	Debris Filter/ Self Cleaning Strainer	I			GEA-BGR	Chennai	A				
					Multitex	Gr.Noida	A				
					Remi	Tarapur,India	A		SS		
					Apex	Alwar	A		SS (up to 150NB)		
					Ratnamani	Ahmedabad	A		SS		
					ISMT	India	A		CS (up to 400 NB)		
					Maharashtra Seamless Ltd.	Maharashtra	A		CS (up to 400 NB)		
					Tube Products Incorporate	Ahmedabad	A				

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Sr No	Item Description	QP Inspection Category	QP No	QP submission SCH	Proposed Sub Supplier	Country	SS Approval_Status	SS Detail Sub.SCH	Remark	Package Applicable	Provenness Clause (Refer Note-1)
52	LP Pipes & Fittings (CS & SS)	I			TK Corporation	S Korea	A				
					Dee development	Palwal	A				
					Jindal Saw	India	A			CS (up to 400 NB)	
					Tata	India	A			ERW	
					Surya	India	A			ERW	
					JINDAL PIPES LTD	India	A			ERW	
					WELSPUN	India	A			ERW	
					Lalit Pipes & pipes Ltd.,	Thane	A			EFW Pipes	
53	Butterfly Valves (* Also for steam services)	I			Ratnamni Metals and Tubes Ltd.,	Gandhinagar	A		EFW Pipes		
					Fouress Engg. *	Bangalore	A		upto 2600 NB		
					IL *	Palakkad	A		upto 2200 NB		
					BHEL *	Bhopal, India	A				
					Kriloskar Bros. Ltd	Pune	A				
					L&T	Chennai	A				
					Trillium Flow	Hubli	A				
					Tyco	Halol	A				
54	Valves (gate/ globe/check ) for LP application	I			L&T	Chennai/ Coimbatore	A				
					Velan	Canada/ Coimbatore	A				
					KSB	Germany/ Coimbatore	A				
					ToA	Japan	A				
					Fouress Engg	Aurangabad	A				
					Trillium Flow	Hubli	A				
					Crane	USA	A				
					Samshin	S Korea	A				
					KBL	Pune	A				
					Weir	UK	A				
					Leader	Jalandhar	A				
					BHEL	Trichy	A				
					Pentair (Tyco Sempel)	Trichy	A				
					HP Valves(Key Valves Technology)	Netherlands	A				
					IL	Palakkad	A				
55	HP Feedwater Heaters Automatic (String Bypass) Isolation Valves	I			Steel Strong	Mumbai	A				
					KSB	Germany	A				
					Tyco Sempell	Germany	A				
					Strack	Germany	A				
					BHEL	Trichy	A				
					Weir Valves & Controls UK Ltd.	UK	A				
				KSB	Germany /Coimbatore	A					
				L&T	Chennai	A					

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56	Water Steam Cycle HP Valves	I			L&T	Coimbatore	A				
					Velan	Coimbatore	A		up to 2inch, #4500 (up to P92 grade)		
					HP Valves	Netherlands	A		Previous Name:Key Valves Technology		
					Weir Valves & Controls UK Ltd.	UK	A				
					BHEL	Trichy	A				
					Crane	USA	A				
					Samshin	S Korea	A				
					Pentair(Tyco Sempell)	Germany	A				
					Velan	Canada	A				
					ToA	Japan	A				
57	Safety Valves	I			Tyco	USA	A				
					BHEL	Trichy	A				
					Dresser	USA	A				
					Tyco	USA	A				
					Babcock	Spain	A				
					Flainger	Germany	A				
					Bopp & Reuther	Germany	A				
					Flainger	Nasik	A				
					Reineke	Germany	A				
					Valve Technology	USA	A				
58	Forged Seel Valves up to 2" , Class 800 (FCS/FSS)	I			KSB	Coimbatore	A				
					Leader	Jalandhar	A				
					L&T	Chennai	A				
					Velan	Canada	A				
					Fouress Engg	Ahmadnagar	A				
					Trillium Flow	Hubli	A				
					Velan	Canada	A				
					Steel Strong	Mumbai	A				
59	Condenser Tubes	I			L&T	Coimbatore	A				
					Plymouth	USA	A				
					Ratnamani	Kutchh	A				
					Neotiss Limited	Medak,AP	A		Remarks:Formerly Vallourec Heat exchanger Tubes Ltd/ CST Valinox Ltd.		
					REMI Edlestahl Tubulars Ltd.	Tarapur	A				
					Shin han Metal	S Korea	A				
					Valtimat	France	A				
					Nippon Steel Corp.	Japan	A				
					Ratnadeep Metal & Tubes Ltd	Mehsana	A				
					Maxim Tubes	Gandhinagar	A				
60	HP/LP Heater tubes	I			Scholler Werke GmbH	Germany	A				
					Plymouth	USA	A				
					Ratnamani	Kutchh	A				
					Ratnamani	Mehsana	A				
					Valtimat	France	A				
					Nippon Steel Corp.	Japan	A				
					Scholler Werke	Germany	A				
					Heavy Metals and Tubes	Gandhinagar	A				
					Shin han Metal	S Korea	A		LP Heater		
					Apex	Alwar	A		LP Heater		

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					Ratnadeep Metal & Tubes Ltd	Mehsana	A		LP Heater		
					REMI Edlestahl Tubulars Ltd.	Tarapur	A				
					Neotiss Limited	Medak,AP	A		Remarks:Formerly Vallourec Heat exchanger Tubes Ltd/ CST Valinox Ltd.		
61	TG Hall Eot Cranes along with Lifting Beam(if applicable)(Sub-QR Item)	I			FAFECO	Vadodara/Mumbai	A		Vadodara upto 150MT, Mumbai upto 200MT		
					Mukand	Thane	A		upto 300MT		
					WMI Konecranes	Pune	A		upto 300MT		
					Anupam Industries	V U Nagar	A		upto 300MT		
					Unique Industries Handlers	Nasik	A		upto 300MT		
					CRANEX	Ghaziabad	A		upto 140MT		
					HEC	Ranchi	A		upto 265MT, Main Contractor to ensure availability of Load/Overload testing facility at Shop.		
62	Hydrogen Generation Plant(if applicable) (Sub-QR Item)	I			Proton Energy Systems	USA	A				
					MVS ENGINEERING LIMITED	New Delhi	A		Bi-polar type, 2x6NM3/Hr		
					SUKAN ENGG. PVT. LTD	Mumbai	A		Bi-polar type, 2x6NM3/Hr		
					Eastern Electrolyzer Limited	Noida	A		Bi-polar type, 2x6NM3/Hr		
					Teledyne Energy System Inc.	USA	A				
					AIROX NIGEN EQUIPMENTS LTD	Ahmedabad	A		Bi-polar type, 2x6NM3/Hr		
					Electrolyser Corporation	Canada	A				
		BOC	Kolkata	A							
<b>Main Contractor Approved Sources(Note-3)</b>											
1	Turbine Bearing Pedestal	I			Main Contractor Approved Sources						
2	Chemical Dosing System	I			Main Contractor Approved Sources						
3	Vapour Exhauster With Motor	II			Main Contractor Approved Sources						
4	Drain Cooler & Misc Tanks	II			Main Contractor Approved Sources						
5	Oxygen/NAOH Dosing System	II			Main Contractor Approved Sources						
6	Misc Items like Internals of equipments(if not covered in MQP) & Consumables like paints, gaskets etc.	III			Main Contractor Approved Sources						
NOTE - 1 : For final Sub-QR approval , document required to be submitted as per Sub-QR requirements given in the specification.											
NOTE-2: Vendors under 'A' are approved and accepted by NTPC with/without conditions in the past. Similar conditions as the case may be for the vendor shall be applicable for this project and tied up in the quality plan.											
NOTE-3: Main contractor approved sub vendors evaluated / assessed as per Main contractor Quality Management System is acceptable.											
Note-4: The items not covered in the above list shall be mutually discussed & agreed for Item categorisation & sub-vendor control.											
<b>LEGENDS/ संकेतिका</b>											
* - Inspection category will be decided during vendor evaluation.											
<b>1.0 SYSTEM SUPPLIER / SUB SUPPLIER APPROVAL STATUS CATEGORY प्रणाली आपूर्तिकर्ता / सब -वेंडर की स्वीकृति की स्थिति की श्रेणी</b>											
A – For these items proposed vendor is acceptable to NTPC. To be indicated with letter "A" in the list along with the condition of approval, if any./ इन मदों के लिए प्रस्तावित वेंडर एनटीपीसी को स्वीकार्य है। अनुमोदन की शर्त, . यदि कोई हो, के साथ-साथ पत्र "A" में इंगित											
<b>2.0 QP INSPECTION CATEGORY : क्यूपी / निरीक्षण की श्रेणी:</b>											

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CAT - I : For those items the Quality Plans are approved by Customer and final acceptance will be on physical inspection witness by Customer. इन मर्दों के लिए गुणवत्ता योजनाओं को एनटीपीसी द्वारा अनुमोदित किया जाता है और एनटीपीसी द्वारा अंतिम स्वीकृति भौतिक निरीक्षण के दौरान उपलब्ध गवाह के आधार पर दी जाएगी।											
CAT - II : For those items the Quality Plans are approved by Customer. However no physical inspection shall be done by Customer. The final acceptance by Customer shall be on the basis of review of documents. इन मर्दों के लिए गुणवत्ता योजनाओं को एनटीपीसी द्वारा अनुमोदित किया जाता है। हालाँकि एनटीपीसी द्वारा कोई भौतिक निरीक्षण नहीं किया जाएगा। एनटीपीसी द्वारा अंतिम स्वीकृति अनुमोदित क्यूपी के अनुसार दस्तावेजों की समीक्षा के आधार पर दी जाएगी।											
CAT - III :For these items Quality control to be exercised as per Main contractor Quality Assurance System. The final acceptance by NTPC shall be on the basis of Certificate of Conformance (COC) by Main Contractor.											
UNITS/WORKS : Place of manufacturing- Place of main supplier of multi units/works.											


 Project/ पारयोजना : Z X 660 MW SUPER CRITICAL THERMAL POWER PROJECT, HTPS, KORBA WEST Package/ पैकेज : EPC Supplier/ आपूर्तिकर्ता: Contract No./ अनुबंध सं.:		INDICATIVE LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL क्वालिटी प्लान तथा सब -वेंडर के अनुमोदन सहित मदों की सूची SUB-SYSTEM उप-प्रणाली: BOP SYSTEMS (MECHANICAL)				DOC. NO./ दस्तावेज सं.: REV. NO.: DATE/ तिथि : 14.08.23 PAGE/ पृष्ठ :				
S. N. क्र.सं.	Item / मद	QP / Insp. Cat. क्यूपी/ निरी. श्रेणी.	QP No. / क्यूपी. सं.	QP Sub. Schedule क्यूपी	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	Place/ स्थान	Sub-suppliers approval status / category उप	Sub-supplier Details submission	Remarks/ टिप्पणी	Applicable Systems
1	AIR BLOWERS -LOBE TYPE > = 5KW	I			SWAM PNEUMATIC	NOIDA	A			WTP,CPU,AHP
					EVEREST BLOWERS PVT LTD	BAHADURGARH	A		UP TO 40 HP (APPROX 1600 CUM/HR)	
					KAY INTERNATIONAL	SONEPAT	A		UP TO 4800 CUM/HR	
					KULKARNI POWER TOOLS	SHIROL	A		UP TO 2500CUM/HR	
					USHA COMPRESSORS	AHMEDABAD	A		UP TO 60 HP (APPROX 2000CUM/HR)	
2.A	EOT CRANE & ELECTRIC HOIST >5 MT	I (> 10T) / III (>5T UP TO 10T)			REVA INDUSTRIES	FARIDABAD	A		UP TO 60 MT	WTP,CT.AC&VENTILATION,CHP,LHP&GHP,AHP, CW , FDPS
					EDDY CRANE	PUNE	A		UPTO 10 MT	
					CONSOLIDATED HOIST	SATARA /PUNE *	A		SATARA UP TO 20 MT,*PUNE FOR ELECTRIC HOIST UPTO 15 MT	
					ELECTROTHERAPHY	RISHRA	A		UPTO 15 MT FOR ELECTRIC HOIST ONLY	
					HERCULES HOIST	RAIGAD	A		UPTO 15 MT FOR ELECTRIC HOIST ONLY	
					TUBRO FERGUSSON	KOLKATA	A		UP TO 20MT FOR EOT, UP TO 5 MT FOR FOR ELECTRIC HOIST	
					PRAYAS ENGG (PBL)	V V NAGAR	A		UPTO 10 MT FOR ELECTRIC HOIST ONLY	
					ALPHA SERVICES	ALWAR	A		SINGLE GIRDER EOT CRANE & ELECTRIC HOIST UPTO 15 MT ONLY. GEARBOX FROM NTPC APPROVED SOURCES FOR EOT CRANE.	
					CENTURY CRANE ENGINEERS PVT. LTD	BALLABHGARH	A		UP TO 25 MT	
					ARMSEL	BANGALORE	A		UPTO 10 MT EOT & UPTO 15 MT ELECTRIC HOIST	
					TRACTEL TIRFOR	PALWAL	A		UPTO 15 MT FOR ELECTRIC HOIST AND UPTO 10 MT FOR EOT	
					MILLARS INDIA	KARAMSAD	A		UP TO 25 MT	
					AVON CRANES	GURGAON	A		UP TO 25 MT	
					GRIP ENGINEERS	HYDERABAD	A		50 MT (GEARBOX FROM NTPC APPROVED SOURCES FOR EOT CRANE).	
					GRIP ENGINEERS	FARIDABAD	A		UPTO 20 MT ELECTRIC HOIST ONLY	
		CRANEX	GHAZIABAD	A		UP TO 140 MT FOR EOT ONLY				
2.B	GANTRY CRANE >5T	I (> 10T) / III (>5T UP TO 10T)			REVA INDUSTRIES	FARIDABAD	A		UP TO 60 MT	CW
					UNIQUE INDUSTRIAL HANDLERS PVT LTD	NASHIK	A		UP TO 165 MT	
					ANUPAM INDUSTRIES LTD.	ANAND	A		UP TO 60MT	
					SMACO ENGINEERING PVT. LTD	THANE	A		UP TO 60MT	

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Project/ पारयोजना : Z X 660 MW SUPER CRITICAL THERMAL POWER PROJECT, HTPS, KORBA WEST Package/ पैकेज : EPC Supplier/ आपूर्तिकर्ता: Contract No./ अनुबंध सं.:	INDICATIVE LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL क्वालिटी प्लान तथा सब -वेंडर के अनुमोदन सहित मदों की सूची SUB-SYSTEM उप-प्रणाली: BOP SYSTEMS (MECHANICAL)				DOC. NO./ दस्तावेज सं.: REV. NO.: DATE/ तिथि : 14.08.23 PAGE/ पृष्ठ :					
					MANGLA HOIST	GREATER NOIDA	A		UP TO 10MT	
3	FAN- AXIAL TYPE > = 5KW	I			CB DOCTOR VENTILLATOR PVT LTD	AHMEDABAD	A		up to 50000 CMH	WTP,CT.AC&VENTILATION,CHP,LHP&GHP,AHP
					HOWDEN SOLYVENT FLAKT INDIA PVT LTD,	CHENNAI	A		up to 125000 CMH	
					C DOCTOR &CO PVT LTD	KOLKATA	A		up to 50000 CMH	
					KRUGER VENTILATION INDUSTRIES (1) PVT LTD	SHAHPUR, THANE	A		Up to 6000 CMH	
					NADI AIRTECHNICS PVT LTD	CHENNAI	A		Up to 15000 CMH	
					ADVANCE VENTILATION PVT LTD	KUNDALI. SONEPAT	A		up to 40000 CMH	
					SK SYSTEMS PVT LTD	KUNDALI PHASE-II, SONEPAT, HARYANA	A		up to 50000 CMH	
					Patel Airflow	Ahemdabad	A		up to 40000 CMH	
					ALMONAROD (P) LIMITED	CHENNAI	A		Up to 14000 CMH	
4	PIPES-MS- (BLACK/ GI) AS PER IS IS:3589 >1000NB	I			STEEL AUTHORITY OF INDIA LIMITED	ROURKELA	A			CW,CT,MUW
					WELSPUN	ANJAR	A		SAW UPTO 2600 NB	
					WELSPUN	BHARUCH	A		SAW UPTO 1300 NB	
					MAN INDUSTRIES	INDORE	A		SAW UPTO 1400 NB	
					SAMSHI	VADODARA	A		SAW 450 TO 2540 NB	
					MUKAT TANKS & VESSELS	TARAPUR	A		SAW 200 TO 1200 NB	
					MUKAT PIPES	RAJPURA	A		SAW UPTO 1800 NB	
					LALIT PIPES AND PIPES LTD	THANE	A		SAW 350 TO 1400 NB	
					RATNAMANI	CHATRAL	A		SAW 600 TO 2600 NB	
					RATNAMANI	KUTCH	A		SAW 400 TO 3600 NB	
					PSL HOLDINGS LIMITED	DAMAN	A		SAW 450 TO 1600 NB	
					PSL INTERNATIONAL LTD.	CHENNAI	A		SAW 450 TO 1600 NB	
					PSL LIMITED	KUTCH	A		SAW 450 TO 1600 NB	
					PSL LIMITED	VISAKHAPATNAM	A		SAW 450 TO 1600 NB	
		JCO PIPES	CHHINDWARA	A		SAW UPTO 1600 NB				

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					SURYA GLOBAL STEEL TUBE LTD	ANJAR	A		SAW UP TO 2032 OD	
					JINDAL SAW LTD	BELLARY	A		SAW UP TO 3632 OD , THICKNESS 16 MM	
					CAPACITE STRUCURES PVT LTD	THANE	A		406.4 MM TO 3874 MM OD	
5	PIPES & FITTINGS-GRP	I			EPP COMPOSITES PVT LTD	RAJKOT	A		UP TO 900MM	WTP,CT
					GRAPHITE INDIA	NASIK	A		UP TO 1000MM	
					SHRIRAM SEPL COMPOSITES LTD	CHENNAI	A		UP TO 1100MM	
					BALAJI FIBER REINFORCE PVT LIMITED	VADODARA	A		UP TO 650MM	
					MEGHA FIBRE GLASS INDUSTRIES PVT LTD	MEDAK	A		UP TO 900MM	
6	SERVICE VESSEL-CPU & OTHER PR VESSELS >= 10 BAR WORKING PRESSURE	I			DRIPLEX WATER ENGINEERING INTERNATIONAL PVT LIMITED	BHADARBAD	A			WTP,CPU,CAS,CHP, LHP&GHP,AHP
					BGR ENERGY SYSTEMS LTD (ENVIRONMENTAL ENGG. DIV.)	PONNERI	A		UPTO 3000MM DIA & THICKNESS UPTO 28 MM	
					ISHAN EQUIPMENTS PRIVATE LIMITED	VADODARA	A		UPTO 2900 MM DIA & THICKNESS UPTO 28 MM	
					JASMINO POLYMERTECH PVT LTD	TALOJA	A		DIA 2800MM, THICKNESS 25MM DESIGN PRESSURE UP TO 47.5 KSC	
					MAHIMA UDYOG	HARIDWAR	A		DIA UP TO 2900 MM , THICKNESS UPTO 29 MM	
					BELCO POLLUTION CONTROL PVT LTD	GREATER NOIDA	A		UPTO 3200MM DIA & THICKNESS UPTO 30 MM	
7	PUMPS- HORIZONTAL & VERTICAL CENTRIFUGAL - UP TO 300KW	(UP TO 60 KW CAT-II , ABOVE 60 KW CAT-I)			KIRLOSKAR BROTHERS LTD	KIRLOSKARWADI	A			WTP,CW, CPU,FDPS,CHP, LHP &GHP,AC & VENTILATION,MUW, AHP
					WILO MATHER & PLATT	PUNE	A			
					WILO MATHER & PLATT	KOLHAPUR	A			
					SAM TURBO	COIMBATORE	A		FLOW UP TO 1500 CUM/HR AND POWER RATING UP TO 425 KW	
					FLOWMORE LTD	GHAZIABAD	A			
					BEST AND CROMPTON	CHENNAI	A			
					JYOTI LTD	VADODARA	A			
					WPIL	GHAZIABAD	A			
					KISHORE PUMPS	PUNE	A		UPTO 500M3/HR ONLY RUBBERLINED PUMPS ALSO	
					GRUNDFOS PUMPS INDIA PVT LTD	CHENNAI	A		HORIZONTAL UP TO 30 KW ONLY AND VERTICAL UP TO 45 KW ONLY (FOR APPLICATIONS WHERE NPISH IS NOT	
					SINTECH PRECISION	GHAZIABAD	A		HORIZONTAL UP TO 400 KW MOTOR RATING AND VERTICAL UP TO 30 KW MOTOR RATING	




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9.C	VALVE-BUTTERFLY > 600MM OR CLASS>150 (VALVE-BUTTERFLY UP TO 600MM & CLASS 150:::CAT-II & MAIN CONTRACTOR APPROVED SOURCES)	I			INTERVALVE POONAWALA LTD	PUNE	A		SGI / CI / D2 1400MM PN10, SGI / CI 1000MM PN16,CS/SS 500MM PN16, SS 400MM CLASS#300. MS FABRICATED UPTO 2000NB	WTP, CW,CT,CPU,FDPS,CAS, AC& VENTILATION, MUW,CHP, LHP&GHP,LP PIPING,AHP	
					SWIMS TECHNOLOGIES	HUBLI	A		CI/ DI BUTTERFLY VALVE UP TO 1000MM AND PN16 AND UP TO 1800MM AND PN10,CCS UP TO 1050MM CLASS 150 AND UP TO		
					PENTAIR VALVES	HALOL	A		FOR SS UP TO 500 NB PN-10, CI- UP TO 900NB PN-10, UP TO 500NB PN-16, 450MM CLASS#300. MS FABRICATED UPTO 2800NB		
					FOURES ENGINEERING	BANGALORE	A		CAST SGI/CI/ MS FABRICATED- UP TO 1200 PN-10, UP TO 350 PN-16, 2400 MM PN6/CLASS150 SS - UP		
					KIRLOSKAR BROTHERS LTD	KONDHAPURI	A		CAST SGI/CI/CS 1400 MM PN16 , SS 300 MM PN16 , 1800MM CLASS 150, MS FABRICATED 900 NB PN40,MS FABRICATED 2800NB, PN6		
					R & D MULTIPLE	VALSAD	A		CAST SGI/CI/MS FABRICATED- UP TO 1800 MM PN-10/CLASS # 75, ,1100MM PN25,1400MM CLASS#150, MS FABRICATED		
					ADVANCE VALVES PVT LTD	GREATER NOIDA	A		METAL SEATED, TRIPLE ECCENTRIC, SS BFV OF SIZE UPTO 100NB, AND PRESSURE RATING UPTO CLASS #300.		
					BRAY CONTROLS INDIA PVT. LTD	KANCHIPURAM	A		UPTO 450 MM AND CLASS#600		
					INSTRUMENTATION LTD.	PALAKKAD	A		UPTO 2200NB CLASS # 75		
					HAWA ENGINEERS	AHMEDABAD	A		CI/ CS & FABRICATED UPTO 1200MM, CLASS #150, SS UPTO 250MM, CLASS#150		
					CRANE PROCESS FLOW	SATARA	A		UP TO 900MM PN10		
					L & T VALVES LIMITED	COIMBATORE	A		UP TO 900MM CLASS 150		
		DEMBLA VALVES	THANE	A		UP TO 2200MM CLASS#75					
9.D	VALVE-CONVENTIONAL GATE / GLOBE / CHECK > 600NB OR CLASS > 300	II			LEADER VALVES	JALANDHAR	A		CS GATE 600MM CLASS#600, SS GLOBE 600MM CLASS#600, CS CHECK 600MM AND CLASS#600	WTP, CW,CT,CPU,FDPS,CAS, AC& VENTILATION, MUW,CHP, LHP&GHP,LP PIPING,AHP	
					HAWA ENGINEERS	AHMEDABAD	A		FCS / FSS 50 NB CLASS 800.		
					FOURES ENGINEERINGS	THANE	A		400NB CLASS 600 AND 50NB CLASS 800.		
					BHEL IVP	GOINDWAL	A		GATE UP TO 300 NB CLASS 600. GLOBE 250 NB CLASS 400, CHECK 150NB CLASS 600.		
					HITECH ENGG PVT LTD	AHEMDABAD	A		50 NB CLASS 800.		
					KSB PUMPS LTD	COIMBATORE	A		300NB CLASS 2500.		
					NITON VALVES INDIA PVT LTD	NAVI MUMBAI / AURANGABAD	A		CS GATE 900 NB CLASS 600, CHECK 300 NB CLASS 600.		
					L&T VALVES LIMITED	COIMBATORE	A		650 MM CLASS 600, 50 NB CLASS 800.		
9.E	VALVE- DIAPHRAGM TYPE	I			CRANE PROCESS FLOW	SATARA	A		CONVENTIONAL CCS GATE / GLOBE / CHECK VALVES UP TO 600MM AND CLASS # 1500, CSS GATE/ GLOBE/ CHECK VALVES UP TO 200MM UP TO 300NB PN10	WTP,CPU	
					SWIMS TECHNOLOGIES	HUBLI	A		UPTO 250 NB - PN 10, 350MM PN6		
					PROCON ENGINEERS	MUMBAI	A		UPTO 200 NB AND PN 10/CLASS #150		


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9.F	VALVE-PLUG > 100 MM OR CLASS > 800(VALVE-PLUG UP TO 100 MM & CLASS 800:CAT-II & MAIN CONTRACTOR APPROVED SOURCES)	I			SWIMS TECHNOLOGIES	HUBLI	A		SOFT SEATED 400MM AND CLASS #150, 300NB CLASS#300	WTP,CPU,CHP, LHP&GHP, FOH,AHP
					XOMOX SANMAR	TRICHY	A		UP TO 600MM AND CLASS#300	
					FLOWSERVE INDIA CONTROLS	CHENNAI	A		METALLIC SEATED 400NB CLASS#150, 300NB CLASS #300, 50NB CLASS #800	
10	PUMP -SUBMERSIBLE>= 30KW	I			KSB	NASHIK	A		130 KW	WTP,CT, CPU,CHP, LHP&GHP, FOH,AHP.LP PIPING,FDPS
					KIRLOSKAR BROTHERS LTD	KIRLOSKARWADI	A			
					AQUA MACHINERY	AHMEDABAD	A		UP TO 235 KW	
					WPIL	GHAZIABAD	A			
11	RUBBER EXPANSION JOINT>=1600NB (RUBBER EXPANSION JOINT < 1600NB: CAT-II & MAIN CONTRACTOR APPROVED SOURCES)	I			CORI ENGINEERS PVT LTD	CHENNAI	A		UPTO 2800 MM	ACW, ECW, CW,CT
					SRM EXOFLEX PVT LTD	KOLKATA	A		UPTO 2800 MM	
12	FAN ASSEMBLY-COOLING TOWER	I			PAHARPUR COOLING TOWERS LTD	SAHIBABAD	A		WITH SOLID FAN BLADES 288" AND 336 " DIA, WITH FOAM CORED FAN BLADES WITH 10METERS AND 10.97 METERS	CT
					PAHARPUR COOLING TOWERS LTD	BHASA	A		60" TO 288" FAN DIA	
					PAHARPUR COOLING TOWERS LTD	KOLKATA	A		60" TO 288" FAN DIA	
					M/s MAYA FANS AIR ENGG PVT LTD,	DEWAS	A		UP TO 11 METER FAN DIA	
					AMALGAMATED INDUSTRIAL COMPOSITES PVT LTD	NASHIK	A		UP TO 11 METER FAN DIA	
13	GEAR BOX -COOLING TOWER	I			PAHARPUR COOLING TOWERS LTD	SAHIBABAD	A			CT
					PAHARPUR COOLING TOWERS LTD	KOLKATA	A			
					NEW ALLENBERRY WORKS	KOLKATA	A			
					ELECON ENGINEERING	VALLABH VIDYANAGAR	A			
					PREMIUM ENERGY TRANSMISSION LTD.	FALTA	A			
14	DRIVE SHAFT-CARBON FIBRE -COOLING TOWER	II			M/S EUROFLEX TRANSMISSION (INDIA) PVT LTD	HYDERABAD	A			CT
					PAHARPUR COOLING TOWERS LTD	SAHIBABAD	A			
					M/s AMALGAMATED INDUSTRIAL COMPOSITES PVT LTD	NASHIK	A			
					NORTH STREET COOLING TOWERS	GHAZIABAD	A			
15	DRIVE SHAFT SS-COOLING TOWER	II			PAHARPUR COOLING TOWERS LTD	SAHIBABAD	A			CT
					PAHARPUR COOLING TOWERS LTD	KOLKATA	A			


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						NORTH STREET COOLING TOWER	GHAZIABAD	A			
16	PUMP-CW PUMP	I				KIRLOSKAR BROTHER'S LIMITED	KIRLOSKARWADI	A		BOTH CV & VT TYPE	CW
						WPIL LTD	KOLKATA	A		BOTH CV & VT TYPE	
						FLOWSERVE INDIA CONTROLS PVT LTD	COIMBATORE	A		CV TYPE ONLY	
						FLOWMORE LTD	GHAZIABAD	A		VT TYPE ONLY	
						XYLEM WATER SOLUTIONS INDIA PVT LTD	VADODARA	A		VT TYPE ONLY	
						JYOTI LTD	VADODARA	A		VT TYPE ONLY.	
17	ELECTRO HYDRAULIC ACTUATOR FOR CW PUMP DISCHARGE BUTTERFLY VALVE	I				BOSCH REXROTH (INDIA ) PVT LTD	SANAND	A		HYDRAULIC POWER PACK AND HYDRAULIC CYLINDER (320 MMM BORE DIA) , ACCUMULATOR FORM OLAYER (21/C KIADB.	CW
						HYDAC (INDIA) PVT. LTD	COIMBATORE	A		HYDRAULIC POWER PACK-HYDAC COIMBATORE, HYDRAULIC CYLINDER -HYDAC BANGLORE. ACCU MULATOR HYDAC	
18	IMPELLER CASTING - CW PUMP	II				ISGEC	MUZAFER NAGAR	A		FINISHED CASTING UP TO 4.0 MT APPROX	CW
						THE KOLHAPUR STEEL LTD,	KOLHAPUR	A		FINISHED CASTING UP TO 4.0 MT APPROX	
						WESTERN PRECICAST PVT LTD	SANGLI	A		FINISHED CASTING UP TO 3.5 MT APPROX	
						HINDUSTAN UDYOG LIMITED	NAGPUR	A		FINISHED CASTING UP TO 3.0 MT APPROX	
						HI-MET CORPORATION	S.KOREA	A		FINISHED CASTING UP TO 3.0 MT APPROX	
						TULIP CASTING	KOHLAPUR	A		WEIGHT UPTO 3.0 MT , DIA 1600 MM	
						MATHER FOUNDRY LTD	UK	A		FINISHED CASTING UP TO 3.6 MT APPROX	
19	SHAFT-FORGING -CW PUMP	II				GORADIA SPECIAL STEELS LTD	KHAPOLI	A			CW
						BHARAT FORGE	PUNE	A			
						CFFP,BHEL	HARIDWAR	A		UP TO DIAMETER 290MM AND LENGTH APPROX. 3000MM, GRADE SS410	
20	THRUST BEARING FOR CW PUMP	I				MICHEL	BANGLORE	A			CW
						KMP	GREATER NOIDA	A			
21	DELUGE VALVE WITH TRIMS	I				HD FIRE	THANE /JALGAON	A			FDPS
						CARRIER	GURGAON	A		FOR PISTON TYPE DELUGE VALVE ONLY	
						ANSUL	USA	A			FDPS
						KIDDE (GINGEKERR)	UK	A			


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22	INERT GAS EXTINGUISHING SYSTEM	II			NAFFCO	UAE	A				
					MINIMAX Gmbh & Co. KG	GERMANY	A				
					TOTAL WALTHER	GERMANY	A				
					NOHMI BOSAI	JAPAN	A				
23	ALARM VALVE WITH TRIMS	II			HD FIRE	THANE	A			FDPS	
					HD FIRE	JALGAON	A				
24	FOAM SYSTEM(BLADDER TYPE)	I			HD FIRE	JALGAON	A			FDPS	
					FIRETECH	RATNAGIRI	A				
25	FIRE TENDER	I			WADIA BODY BUILDERS	AHEMDABAD	A			FDPS	
					AAREL INDUSTRIES	INDORE	A				
					AMBALA COACH	AMBALA	A				
					VIJAY FIRE	UMBERGAON	A				
26	CENTRIFUGAL FAN (≥ 5KW) MOTOR FROM NTPC ACCEPTED SOURCE	I			MARATHON ELECTRIC MOTOR(I) LTD	KOLKATA	A		UP TO 50000 CMH	AC& VENTILATION, CHP, LHP&GHP,,AHP	
					HOWDEN SOLYVENT FLAKT INDIA PVT LTD,	CHENNAI	A		UP TO 200000 CMH		
					ALMONAROD (P) LIMITED	CHENNAI	A		UP TO 60000 CMH		
					PATEL AIRFLOW	VATWA, AHMEDABAD	A		UP TO 250000 CMH		
					CB DOCTOR VENTILATOR PVT LTD	AHMEDABAD	A		UP TO 150000 CMH		
					WOLTER VENTILATORS INDIA (P) LTD	BHIWADI,	A		UP TO 200000 CMH		
					C DOCTOR &CO PVT LTD	KOLKATA	A		UP TO 250000 CMH		
					SUVIDHA AIR ENGINEERS	AHMEDABAD	A		UP TO 190000 CMH		
					SUBURBAN INDUSTRIAL WORKS PVT. LTD	KOLKATA	A		UP TO 100000 CMH		
					KRUGER VENTILATION INDUSTRIES (I ) PVT LTD	THANE	A		UP TO 90000 CMH		
					SOLYVENT FLAKT	KOLKATA	A		UP TO 200000 CMH		
					ADVANCE VENTILATION PVT LTD	SONEPAT	A		UP TO 250000 CMH		
					SK SYSTEMS PVT LTD	SONEPAT	A		UP TO 250000 CMH		

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27	DIESEL ENGINE	I			CUMMINS	PUNE	A		Up to 2000 KVA	DG SET,FDPS	
					PERKINS	AURANGABAD	A		UP to 313 HP		
					GREAVESS COTTON	AURANGABAD	A		Up to 1750 KVA		
28	3 LPE COATED PIPE	I			SAIL	ROURKELA	A			MUW	
					RATNAMANI	KUTCH	A		UP TO 1100 NB		
					PSL LTD	KUTCH/ VIZAC	A		UP TO 1100 NB		
29	PLATE HEAT EXCHANGER	I			TRANTER INDIA	PUNE	A		HT PLATES & GASKETS FROM TRANTER	ECW	
					ALPHA LAVAL	SATARA	A		SWIDEN/USA.HT PLATES FROM HISKA JAPAN HT PLATES & GASKETS FROM ALPHA LAVAL		
					IDMC	ANAND	A		SWIDEN HT PLATES & GASKETS FROM SONDEX		
					SONDEX INDIA	VADODARA	A		DENMARK HT PLATES FROM SONDEX DENMARK/INDIA (MODEL S188)		
30	DI(Ductile Iron) PIPE & FITTINGS	I			JINDAL SAW(J161)	KUTCH	A		UP TO DN 900 CLASS K7 & K9	MUW	
					JAI BALAJI(J156)	BARDWAN	A		UP TO DN 900 CLASS K7 & K9		
					ELETRO STEEL	KOLKATA	A				
31	AIR COMPRESSOR: OIL FREE CENTRIFUGAL COMPRESSOR	I			NGERSOLL RAND INDIA	AHEMDABAD	A		Capacity Upto 60 NM3/Minute @ Pr 8 bar	CAS	
					KIRLOSKAR PNEUMATIC COMPANY LTD	PUNE	A		Capacity up to 45.3 Nm3/min and pressure rating up to 9.3 kg/cm2		
32	SCREW TYPE AIR COMPRESSORS	I			ATLAS COPCO	Pune (Dapodi)	A			CAS, CHP, LHP, GHP, MRHS, AHP	
		I			INGERSOLL RAND INDIA	AHMEDABAD	A		UPTO MODEL SH 300 (36 NM3/MIN) . AIR ENDS FROM GHH RAND - GERMANY & OTHER COMPONENTS FROM IR'S GLOBAL SOURCES		
		I			ELGI	COIMBATORE	A		UPTO 2830 CFM, AIR ENDS FROM HITACHI-JAPAN. ASSEMBLY AND TESTING AT ELGI COIMBATORE.		
		I			KIRLOSKAR PNEUMATIC COMP LTD	PUNE	A		FLOW CAPACITY 45.3 NM3/MIN , AND PRESSURE RATING 9.3 KG/CM2		
33	AIR DRYER	I			SUMMITS HYGRONICS	COIMBATORE	A		FOR REFRIGERANT DRYER, 11893 M3/HR , REGENERATIVE DRYERS BLOWER REACTIVATED TYPE 2123 M3/HR	CAS	
					MELLCON ENGRS PVT LTD	GR NOIDA	A		Refrigerant type 60 m3/hr & REGENERATIVE DRYERS HOC TYPE 2548 M3/HR		
					DELAIR INDIA LTD	GURGAON	A		Refrigerant type 7500 m3/hr & REGENERATIVE DRYERS HOC TYPE 3000 M3/HR		
					SUMESH PETROLEUM	VADODARA	A		100 CFM(169 M3/HR) & 7 KG/CM2		
					TRIDENT PNEUMATIC PVT LTD	COIMBATORE	A		Refrigerant type 10000 m3/hr & REGENERATIVE DRYERS BHR TYPE 1000 M3/HR		
					KIRLOSKAR CHILLER	PUNE	A		UP TO 350TR		


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34	SCREW CHILLER	II			DAIKIN	NEEMRANA	A		UP TO 185 TR	AC& VENTILATION
					BLUE STAR ( COMPRESSOR FROM HANBEL-TAIWAN)	WADA	A		SCREW CHILLER UP TO 282TR	
35	Mettalic Expansion Bellows	II			MB METTALIC BELLOWS	CHENNAI	A			MRHS
					SUR Industries	KOLKATA	A			
					LONE STAR	CHENNAI	A			
36	Conveying Compressor (Reciprocating)	I			KIRLOSKAR PNEUMATICS	PUNE	A			MRHS
					INGERSOLL RAND	AHEMDABAD	A			
					ATLAS COPCO(CHICAGO PNEUMATIC BRAND)	PUNE	A			
37	ALLOY CAST IRON PIPE, FITTINGS AND LINER	I			CRAWLEY & RAY	KOLKATA	A			MRHS, AHP
					ALLIED FOUNDRIES	BELGAUM	A			
					PARAMOUNT CASTINGS	NAGPUR	A			
					NORTHERN ALLOY	BHAVNAGAR	A			
					MENON METALLIK	KOLHAPUR	A			
					KOLHAPUR STEEL	KOLHAPUR	A			
					AQUA ALLOY	KOLHAPUR	A			
					MARTO PEARL	HYDERABAD	A			
					R.R.L	HOWRAH	A			
					CONCAST ENGINEERING	BURDWAN, WB	A			
					NATRAJ IRON & CASTINGS	DHANBAD	A			
ABHIPRIYA BUSINESS	PANT NAGAR	A								
38	DRY ASH UNLOADING CHUTE	I			MELCO	FARIDABAD	A			AHP
					MACAWBER BEEKAY	KESHWANA	A			
					MINING AND MATERIAL HANDLING EQUIPMENT	KOLKATA	A			
					DCL	HYDERABAD	A			
					FLAKT	KOLKATA	A			

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39	BAG FILTER / SILO VENT FILTER	II			ORIENT FANS (ACCO)	KOLKATA	A			AHP,MRHS	
					THERMAX	PUNE	A				
					RIECO	PUNE	A				
					MELCO	FARIDABAD	A				
					MCNALLY SAYAJI	ASANSOL/KUMARDH UBI	A				
					MACAWBER BEEKAY	KESHWANA	A				
					TAP ENGINEERING	KANCHEEPURAM	A				
40	REFRIGERANT TYPE DRYER	I			SUMMITS HYGRONICS	COIMBATORE	A		Upto 11893 m3/hr	AHP	
					TRIDENT	COIMBATORE	A		Upto 10000 m3/hr		
					MELLCON	GREATER NOIDA	A		Upto 7250 m3/hr		
					DELAIR	GURGAON	A		Upto 7500 m3/hr		
					ATLAS COPCO	BELGIUM	A		Upto model FD 1200. ASSEMBLY AND TESTING AT PUNE		
41	VACUUM PUMP [WATER SEAL RING TYPE]	I			KAKATI KARSHAK	HYDERABAD	A			AHP	
					AEROMATIC	AHEMDABAD	A		Size Upto 200 MM , Capacity 3924 m3/hr		
42	BASALT LINE PIPE & FITTING	I			DECCAN MECHANICAL & CHEMICAL(DEMECH)	BARAMATI	A		UP TO 500 NB	AHP	
					ENVIRO ABRASION	PUNE	A		CAST BASALT LINERS FROM SCHOLTEN GmbH-GERMANY		
					TURBO ENGINEERS	COIMBATORE	A		CAST BASALT LINERS FROM KALENBORN - GERMANY/POLAND OR EUTIT - Czech Republic		
					GOENKA CAST ENGINEERING(I) PVT LTD	DURG	A		UP TO 350 NB		
					BMW STEEL	ROORKEE	A		UP TO 550 NB		
43	SLURRY DUTY KNIFE GATE VALVE	I			BRAY CONTROLS INDIA PVT LTD, VAAS KNIFE GATE VALVE DIVISION	CHENNAI	A		UPTO PN 10 RATING	AHP	
					FOURESS ENGINEERING	BANGALORE	A		UPTO PN 10 RATING		
					ORBINOX	COIMBATORE	A		UPTO PN 16 RATING		
					WEIR MINERALS	BANGALORE	A		UPTO 12" PN 10 RATING		
44	FLY ASH DUTY KNIFE GATE VALVE	I			BRAY CONTROLS INDIA PVT LTD, VAAS KNIFE GATE VALVE DIVISION	CHENNAI	A			AHP	
					FOURESS ENGINEERING	BANGALORE	A				


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	LET ASH DUST FAN INLET GATE VALVE				ORBINOX	COIMBATORE	A			AHP
					JASH SCHUTTE	INDORE	A			
45	CAST IRON PIPE	II			ELECTROSTEEL	CHENNAI	A		UPTO 450 NB	AHP
					KESORAM	KOLKATA	A		UPTO 350 NB	
					IISCO	KULTI	A			
					KAPILANSH DHATU UDYOG	NAGPUR	A		APPROVED UPTO 300 NB.	
					KUSHA LAVA	VIJAYWADA	A		FOR NON STD. SIZE	
46	ASH SLURRY PUMP	I			SAM INDUSTRIAL PUMPS	COIMBATORE	A			AHP
					WEIR MINERALS	AUSTRALIA	A		MANUFACTURING AT WEIR MINERALS BANGALORE	
47	AIR LOCK FEEDER VESSEL / BOTTOM ASH OVERFLOW TANK/MIXING TANK/COARSE ASH TANK/ AIR OIL CONVERTOR TANK, AIR INTAKE VALVE	II			MELCO	FARIDABAD	A			AHP
					MCNALLY SAYAJI	ASANSOL/KUMARDH UBI	A		AIR OIL TANK- ASANSOLE , AIR INTAKE VALVE - KUMARDUBHI	
					MACAWBER BEEKAY	KESHWANA	A			
48	BOTTOM ASH HOPPER / BUFFER HOPPER/DUST COLLECTOR	I			MCNALLY SAYAJI	ASANSOL/KUMARDH UBI	A			AHP
					MELCO	FARIDABAD	A		ONLY FOR BUFFER HOPPER AND DUST COLLECTOR	
					MACAWBER BEEKAY	KESHWANA	A			
49	CLINKER GRINDER	I			MELCO	FARIDABAD	A			AHP
					MCNALLY SAYAJI	ASANSOL/KUMARDH UBI	A			
					L&T	KANSBAHAL	A			
					MACAWBER BEEKAY	KESHWANA	A			
50	FLY ASH HOPPERVALVE/ASH INTAKE VALVE/FLY ASH DIFFUSER / DRIVE ARRANGEMENT FOR CLINKER GRINDER	II			MELCO	FARIDABAD	A			AHP
					MCNALLY SAYAJI	ASANSOL/KUMARDH UBI	A			
					L&T	KANSBAHAL	A			
					MACAWBER BEEKAY	KESHWANA	A			
51	FLUHMIZING PAD / FLUSHING APPARATUS	I			MELCO	FARIDABAD	A			AHP
					MCNALLY SAYAJI	ASANSOL/KUMARDH UBI	A			

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					L&T	KANSBAHAL	A			
					MACAWBER BEEKAY	KESHWANA	A			
52	FLY ASH STORAGE SILO/HCSO SILO	I			MCNALLY SAYAJI	ASANSOL/KUMARDH UBI	A			AHP
					MACAWBER BEEKAY	KESHWANA	A			
53	FEED SUMP / VACUUM BREAKER	I			MELCO	FARIDABAD	A			
					MCNALLY SAYAJI	ASANSOL/KUMARDH UBI	A			AHP
					MACAWBER BEEKAY	KESHWANA	A			
54	FLY ASH HEADER VALVE/BRANCH HEADER VALVE / AIR INTAKE VALVE /EQUALISING VALVE /PLUG GATE FOR SUMP ISOLATION	I			MELCO	FARIDABAD	A			
					MCNALLY SAYAJI	KUMARDHUBI	A			AHP
					L&T	KANSBAHAL	A			
					MACAWBER BEEKAY	KESHWANA	A			
55	HYDROMIX DUST CONDITIONER/ROTARY FEEDER	I			MELCO	FARIDABAD	A			
					MCNALLY SAYAJI	ASANSOL/KUMARDH UBI	A			AHP
					MACAWBER BEEKAY	KESHWANA	A			
					L&T	KANSBAHAL	A			
					EXPONENTIAL ENGINEERING	PUNE	A			
56	JET PUMP / JETTING NOZZLE	I			MELCO	FARIDABAD	A		JET PUMP / JETTING NOZZLE	
					MCNALLY SAYAJI	ASANSOL/KUMARDH UBI	A		JET PUMP / JETTING NOZZLE	AHP
					L&T	KANSBAHAL	A		JET PUMP	
					MACAWBER BEEKAY	KESHWANA	A		JET PUMP / JETTING NOZZLE	
57	COLLECTOR TANK / AIR WASHER / WETTING HEAD / SURGE / SETTLING TANK	I			MELCO	FARIDABAD	A			
					MCNALLY SAYAJI	ASANSOL/KUMARDH UBI	A			AHP
					MACAWBER BEEKAY	KESHWANA	A			
58	PLATE VALVE AT DYKE END	I			MELCO	FARIDABAD	A			
					MCNALLY SAYAJI	ASANSOL/KUMARDH UBI	A			AHP

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					MACAWBER BEEKAY	KESHWANA	A					
59	DESSICANT TYPE AIR DRYER	I			DELAIR	GURGAON	A				AHP	
					INDCON	DELHI	A					
					MELLCON	GREATER NOIDA	A					
					SUMMITS HYGRONICS	COIMBATORE	A					
					TRIDENT	COIMBATORE	A					
60	STACKER RECLAIMER & RECLAIMER	I			MCNALLY	KUMARDHUBI / ASAN	A				CHP	
					L&T	KANCHEEPURAM	A					
					THYSSENKRUPP	PUNE	A					
					ELECON	V V NAGAR	A					
					TRF	JAMSHEDPUR	A					
					SANDVIK	PUNE	A					
					PROMAC	BANGALORE	A					
		THYSSENKRUPP	HYDERABAD	A				* Hyderabad works approved for some of assemblies for Stacker Reclaimer - Counter Weight Boom, Box and Bucket Wheel Head & Tail part, Tripper Structure				
61	WAGON TIPPLER & SIDE ARM CHARGER	I			ELECON	V V NAGAR	A				CHP	
					FAMAK S.A. (IN ASSOCIATIONWITH MBE-ASANSOL)	POLAND	A					
					L & T	KANSBAHAL	A					
					THYSSENKRUPP	PUNE	A					
					TRF	JAMSHEDPUR	A					
					PROMAC	BANGALORE	A					
62	APRON FEEDER WITH DRIBBLE CONVEYOR (1600 TPH)	I			THYSSENKRUPP	HYDERABAD	A			UPTO 2400 TPH	CHP	
					L&T	KANSBAHL	A			UPTO 2200 TPH		
					ELECON	VV NAGAR	A			UPTO 2200 TPH		
					TRF	JAMSHEDPUR	A			UPTO 2400 TPH Extended Warranty of 3 years over & above of contractual warranty on parts other than the		
					MCNALLY SAYAJI	KUMARDHUBI	A			UPTO 2200 TPH		


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63	RING GRANULATOR	I			PENNSYLVANIA CRUSHERCORPORATION	USA	A		UP TO 1760 TPH	CHP
					AMERICAN PULVERISER	USA	A		UPTO 1875 TPH	
					THYSSENKRUPP	PUNE	A		UP TO 2035 TPH	
					TRF	JAMSHEDPUR	A		UP TO 1800 TPH TRF shall give extended warranty of 5 years over & above Contractual Warranty	
					L&T	KANSBAHAL	A		UP TO 1600 TPH	
					ELECON	V V NAGAR	A		UP TO 1320 TPH	
					MCNALLY SAYAJI	KUMARDHUBI	A		UPTO 1000 TPH	
64.A	VIBRATING SCREEN FEEDER	I			TECHNO VIBRAZIONI	ITALY	A		UPTO 1875 TPH	CHP
					ELECON	V V NAGAR	A		UP TO 1320 TPH	
					GENERAL KINEMATICS	USA	A		UP TO 2000TPH	
					THYSSENKRUPP	PUNE	A		UP TO 2035 TPH	
					TRF	JAMSHEDPUR	A		UP TO 1800 TPH TRF shall give extended warranty of 5 years over & above Contractual Warranty	
					MCNALLY SAYAJI	KUMARDHUBI	A		UPTO 1210 TPH	
64.B	VIBRATING FEEDER	I			TECHNO VIBRAZIONI	ITALY	A		UPTO 1875 TPH	CHP
					ELECON	V V NAGAR	A		UP TO 1320 TPH	
					GENERAL KINEMATICS	USA	A		UP TO 2000TPH	
					THYSSENKRUPP	PUNE	A			
					TRF	JAMSHEDPUR	A		UP TO 1800 TPH TRF shall give extended warranty of 5 years over & above Contractual Warranty	
					MCNALLY SAYAJI	KUMARDHUBI	A		UPTO 1210 TPH	
					INTERNATIONAL COMBUSTION	NAGPUR	A			
					Electro Zavod	Kolkata	A		UPTO 400TPH	
					Elektromag Joest	Vapi	A		UP TO 750 TPH	
					BENGAL TOOLS	KOLKATA	A			
					THYSSENKRUPP	PUNE / HYDERABAD	A			
					ELECON	V V NAGAR	A			

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65	TRAVELLING TRIPPER	I			MBE	KUMARDHUBI	A			CHP
					TRF	JAMSHEDPUR	A			
					HMTC	KOLKATA	A			
					L & T - MACNIL	CHENNAI	A			
					L & T	KANSBAHAL	A			
					L & T - EWL	KANCHEEPURAM	A			
66	FABRIC BELTING(FR GRADE) / STEEL CORD BELTING(FR GRADE)	I			PHOENIX CONVEYOR BELT	KOLKATA	A		FABRIC BELT UPTO 2200 MM WIDTH, STEEL CORD BELT (FR GRADE UPTO 2400 MM WIDTH)	CHP, LHP/GHP
					IMASS S.A	GREECE	A		FABRIC BELT UPTO 2400 MM WIDTH , STEEL CORD BELT (FR GRADE UPTO 2400 MM WIDTH)	
					MRF	CHENNAI	A		FABRIC BELT UPTO 1600 MM WIDTH	
					SEMPELTRAN NIRLON	MUMBAI	A		FABRIC BELT UPTO 1600 MM WIDTH	
					HINDUSTAN RUBBER	SILVASA	A		FABRIC BELT UPTO 1600 MM WIDTH	
					NORTHLAND RUBBER	SONEPAT	A		FABRIC BELT UPTO 2200 MM WIDTH.	
					SOMI CONVEYOR	JODHPUR	A		FABRIC BELT UPTO 2000 MM WIDTH	
					RAVASCO TRANSMISSION LTD.	VAPI	A		FABRIC BELT UPTO 2200 MM WIDTH	
					ORIENTAL RUBBER	PUNE	A		FABRIC BELT UPTO 2200 MM WIDTH , STEEL CORD BELT (FR GRADE UPTO 2000 MM WIDTH)	
					FORECH	CHENNAI	A		FABRIC BELT UPTO 2200 MM WIDTH , STEEL CORD BELT (FR GRADE UPTO 2000 MM WIDTH)	
					CAMOPLAST	KOREA	A		STEEL CORD FR GRADE UPTO 2400 MM WIDTH	
					YOKOHAMA	JAPAN	A		FABRIC BELT UPTO 2400 MM WIDTH , STEEL CORD BELT (FR GRADE UPTO 2400 MM WIDTH)	
67	IDLERS	I			ELECON	V V NAGAR	A			CHP , LHP/GHP
					MBE	KUMARDHUBI	A			
					KALI	KUMBAKONAM	A			
					AMPS	JAMSHEDPUR	A			
					A.ADAK	HOWRAH	A			
					BTL EPC	KOLKATA	A			
					V V N MFG	V V NAGAR	A		Upto 150 NB Dia	


 Project/ पारयोजना : Z X 660 MW SUPER CRITICAL THERMAL POWER PROJECT, HTPS, KORBA WEST Package/ पैकेज : EPC Supplier/ आपूर्तिकर्ता: Contract No./ अनुबंध सं.:		INDICATIVE LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL इवालिटी प्लान तथा सब -वेंडर के अनुमोदन सहित मदों की सूची SUB-SYSTEM उप-प्रणाली: BOP SYSTEMS (MECHANICAL)				DOC. NO./ दस्तावेज सं.: REV. NO.: DATE/ तिथि : 14.08.23 PAGE/ पृष्ठ :				
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					THYSSENKRUPP	HYDERABAD / PUNE	A			
					PROMAC	BANGALORE	A			
					L & T - EWL	KANCHEEPURAM	A			
					ROLLWELL	HINDUPUR	A			
					TRF	JAMSHEDPUR	A			
					ELECON	V V NAGAR	A			
					PROMAC	BANGALORE	A			
					MBE	KUMARDHUBI	A			
					BTL EPC	KOLKATA	A			
					TNS HEAVY	CHENNAI	A			
68	PULLEYS	I			KALI	THIRUBUVANAM	A			
					THYSSENKRUPP	HYDERABAD / PUNE	A			
					L & T - EWL	KANCHEEPURAM	A			
					V V N MFG	V V NAGAR	A		Upto 800 NB Dia	
					ROLLWELL	HINDUPUR	A			
					TRF	JAMSHEDPUR	A			
					SHANTI GEARS	COIMBATORE	A		Upto size 560	
					ELECON	V V NAGAR	A			
					SIEMENS (FLENDER)	KHARAGPUR	A			
69	HELICAL GEARBOX	I			PREMIUM TRANSMISSION LTD	PUNE/FALTA	A		Up to size 710 / 450	
					SIEMENS (FLENDER)	GERMANY	A			
					NEW ALLENBURY WORKS	KOLKATA	A			
					ELECON	V V NAGAR	A			
					SIEMENS (FLENDER)	GERMANY	A			
70	PLANETARY GEARBOX	I			MOVENTAS	GERMANY	A			


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70	LEAVE PART GEARBOX				DANA MOTION SYSTEMS ITALIA S.r.l	ITALY	A		(Earlier name - BREVINI)	CHP, LHP / GHP
					MAGTORQ	HOSUR	A		Upto 11 KW	
					SEW EURODRIVE GMBH & CO.	GERMANY	A			
71	FLUID COUPLING (SCOOP AND TRACTION TYPE)	I			FLUIDOMAT	DEWAS	A		Scoop type upto SC-1330	CHP, LHP / GHP
					PTL	AURANGABAD	A		SCOOP TYPE UPTO PST 1150	
					ELECON	V V NAGAR	A		Scoop type upto model ESC 760. 1. As part of Type test M/s Elecon will demonstrate Scoop tube in & Scoop tube out	
					VOITH	HYDERABAD	A		SCOOP TYPE UPTO SVNL 1330	
72	SLEW RING	III			TITANUS	SOUTH AFRICA	A			CHP, LHP / GHP
					IMO	GERMANY	A			
					SKF	FRANCE	A			
					ROTHE ERDE	GERMANY	A			
					LIEBHERR	GERMANY	A			
73.A	COAL SAMPLER SYSTEM	I			EAST MAN CRUSHER	KOLKATA	A		WITH JEFFREY CRUSHER AND EASTMAN MAKE CRUSHER	CHP
					ERIEZ MAG EUROPE LTD	UK	A			
					SIEVE TECHNIK	GERMANY	A		MANUFACTURING OF PRIMARY & SECONDARY SAMPLER AN BOTLLE COLLECTOR AT MULTOTEC SA	
					THERMO RAMSAY INC	USA	A			
					ADVANCE SYSTEMS SAMPLING	KOLKATA	A		WITH JEFFREY CRUSHER AND ADVANCE MAKE CRUSHER	
73.B	LIMESTONE SAMPLING SYSTEM	I			EAST MAN CRUSHER	KOLKATA	A		WITH JEFFREY CRUSHER AND EASTMAN MAKE CRUSHER	LHP / GHP
					ERIEZ MAG EUROPE LTD	UK	A			
					SIEVE TECHNIK	GERMANY	A		MANUFACTURING OF PRIMARY & SECONDARY SAMPLER AN BOTLLE COLLECTOR AT MULTOTEC SA	
					THERMO RAMSAY INC	USA	A			
					ADVANCE SYSTEMS SAMPLING	KOLKATA	A		WITH JEFFREY CRUSHER AND ADVANCE MAKE CRUSHER	
74	HYDRAULIC POWER PACK	I			EATON POWER	PUNE	A			CHP, LHP / GHP
					BOSCH-REXROTH	AHMEDABAD	A			
					MAHA HYDRAULICS	CHENNAI	A			


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					L & T HYDRAULICS	BANGALORE	A		EXCEPT FOR STACKER RECLAIMER	
					Hydac	COIMBATORE	A			
75	HYDRAULIC CYLINDER	I			VELJAN	HYDERABAD	A			CHP, LHP/GHP
					WIPRO	BANGALORE	A			
					EATON POWER	PUNE	A			
					L & T HYDRAULICS	BANGALORE	A			
					BOSCH-REXROTH	AHMEDABAD	A			
					Hydac	COIMBATORE	A			
76	HYDRAULIC MOTOR	I			POCLAIN HYDRAULICS	FRANCE	A			CHP, LHP/GHP
					BOSCH-REXROTH AB (FORMERLY HAGGLUNDS)	SWEDEN	A			
					PARKER CALZONI	ITALY	A			
					MAHA HYDRAULICS	CHENNAI	A		UP TO 100 LITRE CAPACITY	
					KAWASAKI	UK	A			
77	HAMMER MILL CRUSHER FOR LIME STONE HANDLING SYSTEM	I			INTERNATIONAL COMBUSTION	NAGPUR	A			LHP/GHP
					MCNALLY SAYAJI	BARODA	A			
					MCNALLY SAYAJI	KUMARDHUBI	A			
					ELECON	V V NAGAR	A			
					THYSSENKRUPP INDUSTRIES INDIA	PUNE	A			
					ECOMAN	BARODA	A		UPTO 150TPH	
					INDIANA GRATINGS PVT. LTD.	PUNE	A			
					JINDAL STEEL & POWER LTD.	RAIGARH	A			
					BABY ENGG. PVT. LTD.	TRICHY	A			
					REGIONAL ENGG. WORKS	TRICHY	A			
					AJANTHA FABS	MATHURA	A			
					CAPACITE STRUCTURES LTD.	THANE	A			

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78	SHOP FABRICATED STRUCTURE	I			MIURA INFRASTRUCTURE PVT. LTD.	BHILAI	A			CHP/LHP/GHP	
					SHIVAM HITECH STEELS PVT. LTD	BHILAI	A				
					TECHNOFAB MANUFACTURING LTD.	CHENNAI	A				
					JSW SEVERFIELD STRUCTURES LTD(JSSL)	BELLARY	A				
					ALLIANCE INTEGRATED METALIKS LTD(AIML)	RAJPURA	A				
					ATMASTCO PVT LTD	DURGAPUR	A				
					APEX BUILDSYS LTD	NAGPUR	A				
					COREFAB PROJECTS PVT LTD	BHILAI	A				
					KOTHARI CHEMICALS	BHILAI	A				
					FEDDERS LLOYD CORPORATION LTD	SIKANDRABAD	A				
					ARCELOR MITTAL DHAMM PROCESSING PVT LTD	RANIPET	A				
					ARTSON ENGINEERING	NASIK	A				
					ARTSON ENGINEERING	NAGPUR	A				
					HEAVY ENGINEERING WORKS	REWA, MP	A				
					ARCELORMITTAL NIPPON STEEL INDIA LTD	CHENNAI	A				
					TRIDENT FABRICATORS PVT LTD	ROURKELA	A				
					GREAT INDIA STEEL FABRICATORS	YAMUNA NAGAR	A				
					METALFAB HITECH	NAGPUR	A				
					SUPERTECH INDIA	G.NOIDA	A				
					GOODLUCK STEEL	SIKANDRABAD	A				
		BTL	KOLKATA	A							
		BTL	DURGAPUR	A							
		AMIYA STEEL	KOLKATA	A							
		NAMDHARI TRADERS	LUDHIANA	A							
		THYSSENKRUPP INDUSTRIES INDIA	HYDERABAD	A							

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79		Steel Cord Pipe Conveyor (FR Grade)	I			Phonix Cnoveyor belt	Kolkata	A		Upto 2400 MM B/w	
						Oriental Rubber	Pune	A		Upto 2000 MM B/w	
						Forech India Pvt Ltd	Cheyar	A		Upto 2000 MM B/w	
80		PIPE-SS ASTM A 312	II			REMI	TARAPUR	A		ERW UPTO 400 NB,SEAMLESS UP TO 200NB	
						RATNAMANI	MEHSANA	A		ERW UPTO 500 NB, SEAMLESS UPTO 50 NB ONLY	
						RATNAMANI	KUTCH	A		ERW UPTO 400 NB, SEAMLESS UPTO 50 NB ONLY, ARC WELDED UP TO 450NB	
						BHANDARI FOILS & TUBES LIMITED	DEWAS	A		ERW UP TO 300NB	
						APEX	BEHRORE	A		ERW UPTO 400 NB, SEAMLESS UPTO 50 NB.	
						PRAKASH STEELAGE	SILVASA	A		ERW UP TO 203NB	
						SHUBHLAXMI METALS AND TUBES	UMBERGAON	A		SEAMLESS UP TO 150MM and ERW UP to 250 NB Sch 40S	
81		PIPE-CS SEAMLESS ASTM A 106	II			ISMT	AHMADNAGAR	A		UPTO 273 MM OD	
						ISMT	BARAMATI	A		UPTO 273 MM OD	
						REMI	BHARUCH	A		UPTO 177.8 MM OD	
						MAHARASHTRA SEAMLESS	RAIGAD	A		UPTO 500 NB	
82		HCS D PUMP	I			WEIR MINERALS	NETHERLANDS	A			
						ABEL	GERMANY	A			
						FELUWA	GERMANY	A			
83		GEAR BOX -ASH CONDITIONER	I			BONFIGLIOLI TRANSMISSIONS PVT LTD	CHENNAIL	A		BEVEL HELICAL GEAR TA SERIES	
<b>ITEM WITH MAIN CONTRACTOR / BIS APPROVED SOURCES.</b>											
1	BRANCH PIPE , COUPLING & NOZZLE (SS & GM)		II			BIS APPROVED SOURCES WITH VALID BIS LICENSE					FDPS
2	FIRE EXTINGUISHER		II			BIS APPROVED SOURCES WITH VALID BIS LICENSE					FDPS
3	WATER MONITOR		II			BIS APPROVED SOURCES WITH VALID BIS LICENSE					
4	PIPES-MS- (BLACK/ GI) AS PER IS:1239 & IS:3589 UPTO 1000 NB		II			(BIS MARKED, MANUFACTURERS WITH VALID BIS LICENSE)					WTP,CW,CT,CPU,FDPS,A C&VENTILATION,CHP,LH P&GHP,AHP
5	FIRE HOSE		II			BIS APPROVED SOURCES WITH VALID BIS LICENSE					FDPS
6	HYDRANT VALVE		II			BIS APPROVED SOURCES WITH VALID BIS LICENSE					

 <b>Project/ पारयोजना : 2 X 660 MW SUPER CRITICAL THERMAL POWER PROJECT, HTPS, KORBA WEST</b> <b>Package/ पैकेज : EPC</b> <b>Supplier/ आपूर्तिकर्ता:</b> <b>Contract No./ अनुबंध सं.:</b>		<b>INDICATIVE LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL</b> <b>क्वालिटी प्लान तथा सब-वेंडर के अनुमोदन सहित मदों की सूची</b> <b>SUB-SYSTEM उप-प्रणाली: BOP SYSTEMS (MECHANICAL)</b>				<b>DOC. NO./ दस्तावेज सं.:</b> <b>REV. NO.:</b> <b>DATE/ तिथि : 14.08.23</b> <b>PAGE/ पृष्ठ :</b>				
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7	PIPES FOR IDLERS IS 9295	III			BIS APPROVED SOURCES WITH VALID BIS LICENSE					FDPS
8	BLOWERS -CENTRIFUGAL >=5KW	II			MAIN CONTRACTOR APPROVED SOURCES					WTP
9	CIO2 GENERATOR	II			MAIN CONTRACTOR APPROVED SOURCES					WTP
10	JOINT /FITTING COATING MATERIAL(SLEEVE) FOR 3 LPE PIPES	II			MAIN CONTRACTOR TO PROPOSED VENDOR FOR NTPC APPROVAL					MUW
11	PIPING FABRICATION -HP>300PSI	II			MAIN CONTRACTOR APPROVED SOURCES					WTP,CPU
12	PUMP-METERING/DOSING	II			MAIN CONTRACTOR APPROVED SOURCES					WTP,CPU
13	PUMP - PP- ACID/ ALKALI UNLOADING	II			MAIN CONTRACTOR APPROVED SOURCES					WTP,CPU
14	PUMPS-SCREW TYPE	II			MAIN CONTRACTOR APPROVED SOURCES					WTP,CPU,FOH
15	RUBBER LINING OF TANKS/ VESSELS/ PIPES/ VALVES/FITTINGS	II			MAIN CONTRACTOR APPROVED SOURCES					WTP,CPU
16	RO PRESSURE TUBE	II			MAIN CONTRACTOR APPROVED SOURCES					WTP
17	TUBE SETTLER MEDIA	II			MAIN CONTRACTOR APPROVED SOURCES					WTP
18	WRAPPING & COATING MATERIAL -ANTI CORROSIVE TAPE	II			MAIN CONTRACTOR APPROVED SOURCES					CW,CT,LP PIPING, FDPS
19	DRIFT ELIMINATOR-PVC	II			MAIN CONTRACTOR APPROVED SOURCES					CT
20	FAN CYLINDER SEGMENTS-FRP-COOLING TOWER	II			MAIN CONTRACTOR APPROVED SOURCES					CT
21	COOLING TOWER FILLS	II			MAIN CONTRACTOR APPROVED SOURCES					CT
22	SHAFT-CARDON TYPE-CW PUMP	II			MAIN CONTRACTOR APPROVED SOURCES					CW
23	DUST EXTRACTION SYSTEM	I			MAIN CONTRACTOR's APPROVED SOURCES				BOIs SHALL BE FROM NTPC APPROVED SOURCES	CHP, LHP/GHP
24	DUST SUPPRESSION SYSTEM (PLAIN WATER)	I			MAIN CONTRACTOR's APPROVED SOURCES				BOIs SHALL BE FROM NTPC APPROVED SOURCES	CHP, LHP/GHP
25	DUST SUPPRESSION SYSTEM (DRY FOG)	I			MAIN CONTRACTOR's APPROVED SOURCES				BOIs SHALL BE FROM NTPC APPROVED SOURCES	CHP, LHP/GHP
<b>Note-1</b> Items for which Sub-QR is envisaged, vendors are accepted subject to Sub-QR clearance from NTPC Engg.										
<b>A</b> – For these items proposed vendor is acceptable to NTPC. To be indicated with letter “A” in the list along with the condition of approval, if any./ इन मदों के लिए प्रस्तावित वेंडर एनटीपीसी को स्वीकार्य है। अनुमोदन की शर्त,, यदि कोई हो, के साथ-साथ पत्र “क” में इंगित किया जाए ।										
<b>DR</b> – For these items “Detailed required” for NTPC review. To be identified with letter “DR” in the list. एनटीपीसी द्वारा इन मदों की समीक्षा के लिए “विस्तृत ब्यौरे की आवश्यकता” होगी। सूची में “DR” पत्र में इंगित किया जाना चाहिए।										
<b>QP / INSPECTION CATEGORY:</b>										
<b>CAT-I / श्रेणी- I:</b> For these items the Quality Plans are approved by NTPC and the final acceptance will be on physical inspection witness by NTPC. इन मदों के लिए गुणवत्ता योजनाओं को एनटीपीसी द्वारा अनुमोदित किया जाता है और एनटीपीसी द्वारा अंतिम स्वीकृति भौतिक निरीक्षण के दौरान उपलब्ध गवाह के आधार पर दी जाएगी।										
<b>CAT-II / श्रेणी- II:</b> For these items the Quality Plans approved by NTPC. However no physical inspection shall be done by NTPC. The final acceptance by NTPC shall be on the basis review of documents as per approved QP. इन मदों के लिए गुणवत्ता योजनाओं को एनटीपीसी द्वारा अनुमोदित किया जाता है। हालाँकि एनटीपीसी द्वारा कोई भौतिक निरीक्षण नहीं किया जाएगा। एनटीपीसी द्वारा अंतिम स्वीकृति अनुमोदित क्यूपी के अनुसार दस्तावेजों की समीक्षा के आधार पर दी जाएगी।										

	Project/ पारयाजना : 2 X 660 MW SUPER CRITICAL THERMAL POWER PROJECT, HTPS, KORBA WEST Package/ पैकेज : EPC Supplier/ आपूर्तिकर्ता: Contract No./ अनुबंध सं.:	INDICATIVE LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL क्वालिटी प्लान तथा सब -वेंडर के अनुमोदन सहित मदों की सूची SUB-SYSTEM उप-प्रणाली: BOP SYSTEMS (MECHANICAL)				DOC. NO./ दस्तावेज सं.: REV. NO.: DATE/ तिथि : 14.08.23 PAGE/ पृष्ठ :				
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CAT-III/ श्रेणी-III : For these items Quality control to be exercised as per Main contractor Quality Assurance System. The final acceptance by NTPC shall be on the basis of Certificate of Conformance (COC) by Main Contractor.										
UNITS/WORKS इकाईयाँ / कार्य: Place of manufacturing/ निर्माण का स्थान Place of Main Supplier of multi units/works/बहु- इकाईयाँ / कार्यों के मुख्य सप्लायर का स्थान.										
FORMAT NO./ प्रारूप सं: QS-01-QAI-P-1B/F1-R0						Engg. Div. / QA&I				

		Project/परियोजना : CSPGCL 2X660MW Super Critical Thermal Power Project, HTPS Korba West					LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL <b>व्वालिटी प्लान तथा सब-सप्लायर के अनुमोदन सहित मदों की सूची</b>			Doc. No./ दस्तावेज सं.:
		Package/पैकेज : EPC PACKAGE					SUB-SYSTEM उप-प्रणाली: ELECTRICAL			REVISION NO : 00
		Supplier/आपूर्तिकर्ता:								DATE/तिथि : 26.09.2023
		Contract No./ अनुबंध सं.:								
S. No. क्र.सं	Item/मद	QP/Insp. Cat. क्यूपी/ निरी. श्रेणी.	QP No./ क्यूपी. सं.	QP Sub. Schedule क्यूपी उप.अनुसू. चि	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	Place/स्थान	Sub-suppliers approval status / category उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	Sub-supplier Details sub sch/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची	Remarks/ टिप्पणी	
1	GENERATOR	CATI			BHEL	Haridwar	A			
					Siemens	Germany	A			
					GE	Sanand	A			
					GE	POLAND	A			
					MELCO	JAPAN	A			
					LMTG	Hazira	A			
					Hitachi	Japan	A			
					Toshiba	Japan	A			
					TJPS	Chennai	A			
2	Power Transformers	CATI			ABB	Sweden	A		Up to 765 KV Class	
					ABB	Vadodara	A		Up to 765 KV Class	
					Toshiba	Japan	A		Up to 765 KV Class	
					CG Power & Industrial Solutions Ltd	Mandideep	A		Up to 765 KV class	
					BHEL	Bhopal	A		Up to 400 KV Class	
					Siemens	Mumbai	A		Up to 400 KV Class	
					GE T&D India Limited	Naini	A		Up to 400 KV Class	
					GE T&D India Limited	Vadodara	A		Up to 765 KV Class	
					TELK	Angamally	A		Up to 400 KV Class	
3	Shunt Reactor	CATI			ABB	Sweden	A		Up to 765 KV Class	
					ABB	Vadodara	A		Up to 765 KV Class	
					Toshiba	Japan	A		Up to 765 KV Class	
					CG Power & Industrial Solutions Ltd	Mandideep	A		Up to 765 KV class	
					BHEL	Bhopal	A		Up to 400 KV Class	
					Siemens	Mumbai	A		Up to 400 KV Class	
					GE T&D India Limited	Vadodara	A		Up to 765 KV Class	
					GE T&D India Limited	Naini	A		Up to 400 KV Class	
4	Auxiliary Oil Filled Transformers	CATI			BHEL	Jhansi	A		Up to 220 KV Class	
					Indotech Transformers	Chennai	A		Up to 16 MVA, 11 KV Class	
					Kanohar	Meerut	A		Upto 16 MVA, 33 KV Class	
					Kirloskar Electric Company Limited	Mysore	A		Up to 16 MVA, 33 KV Class	
					Schneider	Vadodara	A		Up to 50MVA, 132 KV Class	
					Transformers & Rectifiers Ltd.	Ahmedabad	A		Upto 90 MVA, 132 KV Class	
					CG Power & Industrial Solutions Ltd	Malanpur	A		Upto 50MVA, 132kV Class	
					Voltamp	Savli	A		Up to 3.5 MVA, 33 KV Class	
5	Dry Type Transformer	CATI			ABB	Savli	A		Up to 8 MVA, 24 KV Class	
					Raychem	Pune	A		Up to 3.5 MVA, 33 KV Class	
					Toshiba	Hyderabad	A		Up to 2.0 MVA, 33 KV Class	
					BHEL	Jhansi	A		Up to 6.3 MVA, 33 KV Class	
					Kirloskar Electric Company Limited	Pune	A		Up to 4.0 MVA, 33 KV Class	
					Voltamp	Savli	A		Up to 3.25 MVA, 33 KV Class	
					Ames Impex	Mehsana Gujrat	A		Up to 1.6 MVA, 11 KV Class	

				Sudhir Power Ltd	Silvassa	A		Up to 1 MVA, 11 KV Class
				Hammond Power Solutions	Hyderabad	A		Up to 95 KVA, 33KV Class
6	OIP/RIP BUSHING							
6.1	OIP/CONDENSER BUSHING	CAT II		BHEL	Bhopal	A		Up to 400 KV class
				Crompton Greaves Ltd	Nasik	A		Up to 400 KV class
				Crompton Greaves Ltd	Aurangabad	A		
				ABB Ltd.	Vadodara	A		Up to 245 KV Class (excluding GT)
				ABB Switzerland Ltd. MICAFIL Bushings	Switzerland	A		Up to 400 KV class
				TELK	Angamaly	A		Up to 400 KV class
				GE T&D India Limited	Hosur	A		Up to 400 KV class
				Alstom-Passion Villa	Italy	A		Up to 400 KV class
				ABB Power Tech.Products	Sweden	A		Up to 400 KV class
6.2	RIP Bushing	CAT I		Trench	France	A		Up to 400 KV class
				ABB AB Components	Sweden	A		Up to 420 KV Class
				ABB Micafil	Switzerland	A		Up to 420 KV Class
				Izolytor	Rusia	A		Up to 420 KV Class
				HSP	Germany	A		Up to 420 KV Class
				Yash High Voltage	Vadodara	A		Up to 145 KV Class
7	INSULATING OIL	CAT I						
				Apar Industries	Rabale/Silvassa	A		
				Power Oil Petroleum Products	Silvassa	A		
				NYNAS NAPHTHENICS AB	SWEEDEN / USA	A		
				Kanden Engg Corp Ltd	Japan	A		
				Nynas Ltd	Hongkong	A		
				Raj Petro Specialities	Chennai/Silvassa	A		
				Savita Oil Technologies	Mumbai/ Silvassa	A		
8	ON LINE DGA ANALYZER	CAT III						
				GE Kelmen Ltd	UK	A		
				GE GRID SOLUTIONS LTD	LISBURN, UK	A		
				Serveron	USA	A		
				CIC	Vadodara	A		Approval Conditions apply
				Morgan Scehaffer	Canada	A		
9	CAPACITIVE VOLTAGE TRANSFORMER (CVT)	CAT I						
				ABB	VADODARA	A		UP TO 400KV
				GE T&D	HOSUR	A		UP TO 765 KV
				BHEL	JHANSI	A		UP TO 400KV
				MEHRU ELECTRICALS	BHIWADI	A		UP TO 132 KV
				CGL	NASHIK	A		UP TO 400KV
10	HT Motor							
10.1	HT Motors (CW PUMP MOTOR)	CAT I						
				WEG	BRAZIL	A		UPTO 3405KW,11KV
				HYOSUNG	S.KOREA	A		UPTO 2800KW,6.6KV
				BHEL	BHOPAL	A		
10.2	HT MOTORS (BFP Motor)	CAT I						
				HYOSUNG	SOUTH KOREA	A		UPTO 11KV 13.5 MW
				BHEL	BHOPAL	A		RQP
				HYUNDAI	SOUTH KOREA	A		UPTO 11KV 17 MW
10.3	HT MOTORS (ID Fan Motors)	CAT I						
				HYOSUNG	SOUTH KOREA	A		UPTO 11KV 13.5 MW
				WEG	HOSUR	A		UPTO 11KV 14 MW
				BHEL	BHOPAL	A		RQP
				HYUNDAI	SOUTH KOREA	A		UPTO 11KV 17 MW
				TMEIC	BENGALURU	A		UPTO 11 KV 5000 KW
10.4	HT MOTOR FOR OTHER EQUIPMENTS	CAT - I						
				HYOSUNG	KOREA	A		UPTO 11KV 13.5 MW
				WEG	BRAZIL	A		UPTO 11KV 2150 KW
				WEG	HOSUR	A		UPTO 11KV 14 MW
				BHEL	BHOPAL	A		RQP
				HYUNDAI	KOREA	A		UPTO 11KV 17 MW
				TECO	TAIWAN	A		UPTO 11KV 12 MW
				TMEIC	JAPAN	A		UPTO 11KV 14 MW
				CONVERTEAM	FRANCE	A		UPTO 11KV 18 MW (*DOCUMENTS FOR NAME CHANGE TO GE CONVERTEAM SHALL BE SUBMITTED FOR APPROVAL)
				ABB	VADODARA	A		UPTO 6.6KV 2500 KW 11KV 2000 KW FOR PUMP/ FAN/ COMPRESSOR UPTO 6.6KV 750KW FOR MILL, UPTO 6.6 KV 1300KW FOR CRUSHER WITH SCOOP COUPLING
				IJLIN	KOREA	A		UPTO 11KV 2900 KW, 6.6KV 2500 KW
				JYOTI	VADODARA	A		UPTO 6.6 KV 2250 KW EXCEPT CRUSHER & MILL APPLICATION
				MARATHON	KOLKATA	A		RQP, UPTO 6.6 KV 1300 KW FOR CRUSHER WITH SCOOP COUPLING & 11 KV 1600 KW FOR OTHER APPLICATION EXCEPT CRUSHER & MILL

				CGL (D5 INDUSTRIAL AREA)	MANDIDEEP	A		UPTO 1650 KW 6.6 KV, 1350 KW 11 KV FOR PUMP, FAN, COMPRESSOR. UPTO 3.3 kV 335 kW WITH FLEXIBLE COUPLING FOR MILL APPLICATION
				CGL (PLOT 9)	MANDIDEEP	A		UPTO 11 KV 4MW FOR PUMP/FAN/COMPRESSOR
				CG ELECTRIC SYSTEM	HUNGARY	A		UPTO 3.3 KV 1100 KW
				TMEIC	BENGALURU	A		UPTO 11 KV 5000 KW
11	LT MOTOR	CAT - I						
	Refer Note-7			ABB	FARIDABAD	A*	* SUBJECT TO VERIFICATION VISIT	UPTO 55KW
				ABB	BANGALORE	A*		UPTO 690V, 475kW
				JYOTI LTD.	VADODARA	A		
				TIPM	JAPAN	A		UPTO 15 KW (NON FLAME PROOF)
				HYOSUNG	SOUTH KOREA	A		
				WEG	BRAZIL	A		
				HYUNDAI	SOUTH KOREA	A		
				LHP	SOLAPUR	A		UPTO 400KW FROM B-16 WORKS. UPTO 200KW FROM B-11 WORKS.
				CGL	AHMEDNAGAR	A		RQP, FOR FLAME PROOF MOTOR
				TMEIC	JAPAN (NAGASAKHI)	A		
				NCEF	BANGALORE	A		UPTO 15 KW
				BHARAT BIJLEE	MUMBAI	A		RQP, FOR FLAME PROOF ALSO
				KEC	BANGALORE/ HUBLI*	A		*UPTO 90KW, RQP, FOR FLAME PROOF ALSO
				MARATHON	KOLKATA	A		RQP (UPTO 690V & 600 KW) FOR FLAME PROOF ALSO
				ABB	SWEDEN	A		UPTO 55KW
				HAVELL	NEEMRANA	A		UP TO 90KW
			KAWAMATA	JAPAN	A		UP TO 75 KW	
			HEM Industries	DAMAN	A		UP TO 30 KW	
			TIPS	JAPAN	A		UP TO 45KW	
11.1	DC Motor	CAT I		CGL	MANDIDEEP	A		
12	LT Switchgear -Floor mounted Draw out type indoor switchgear Panel (MCC, ACDB / DCDB etc.)	CAT I						
				Schneider (formerly L&T)	Mumbai / Coimbatore/ Ahmednagar	A		
				C&S Electric	Noida / Haridwar	A		
				Schneider	Nasik	A		ACB from Schneider, France
				Siemens	Kalwa	A		Conditions apply
				Schneider	Vadodara	A		
12.1	Numerical Relays	CAT I						
				SEL	Pullman, USA	A		
				GE T&D	Stafford, UK	A		P14X, P34X, P44X, P64X, P74X models
				GE T&D	Chennai	A		P14X, P24X, P34X, P44X, P64X, P74X models
				ABB	Finland	A		
				ABB	Baroda	A		For 6XX Series
				GE Multilin	Zamudio, Vizcaya, Spain/ Markham, Ontario, Canada	A		F-650 only
				Schneider	Stone- UK , Vassa- Finland	A		PX30, PX40, VAMP 5X and VAMP 2XX models
				Siemens	Germany	A		
				Siemens	Goa	A		75X Series only
12.2	LV Air Circuit Breaker	CAT II						
				C&S Electric	Noida	A		
				L&T	Mumbai	A		
				GE	Bangalore	A		
				Siemens	Germany	A		
				Schneider	France	A		
12.3	LT CT/PT/CBCT/ Control Transformer	CAT III						
				Kappa	Bangalore	A		
				Southern Electric	Chennai	A		
				Precise	Mumbai	A		
				G&M	Baroda	A		CBCT Only
				Silkaans	Mumbai	A		
				Ind Coil	Mumbai	A		
				Pragati	Thane	A		
				Pravog	Pune	A		
				AE	Mumbai	A		
				Logicstat	Delhi	A		For control transformer only
				C&S Electric	Noida	A		For CT only
				Newtek	Aurangabad	A		For CT/PT/Control transformer
13	LT Switchgear - Floor mounted Fixed type indoor LT Switchgear Panel ( MLDB )	CAT I						
				Switching Circuits	Kolkata	A		
				Hindustan Control & equipment Ltd	Kolkata	A		With fabrication & painting at unit II & MP Electrical Narendrapur
				Maktel	Vadodara	A		Prior Type Testing

			Jakson	Greater Noida	A		
			Vidyut Control	Gaziabad	A		
			Adlec Power	Rohad (Jhajjar)	A		
			Conquerer Control System	Manesar	A	Condition apply ,upto 1250A	
			Control & Schematics	Hyderabad	A		
			Positronics	Vadodara	A		
			Schneider (formerly L&T)	Mumbai / Coimbatore/Ahmednagar	A		
			GE	Bangalore	A		
			C&S Electric	Noida/ Haridwar	A		
			Schneider	Nasik	A		
			Pyrotech	Udaipur	A		
			Siemens	Kalwa	A		
			Tricolite	Sahibabad/Manesar	A		
			Schneider	Vadodara	A		
			Nitya Electrocontrols	Noida	A		
13.1	LT Switchgear - Wall mounted fixed type indoor/ outdoor LT Switchgear non compartmentalized Panel (Lighting panels / AC / DC Fuse boards etc.)Power Panel , Emergency Lighting Panel	CATI					
			Control Devices	Kolkata	A		
			Jasper	Noida	A		
			Havells	Faridabad	A		
			Novateur Electrical & distribution systems	Murthal	A		
			Avaid Technovator	Manesar	A		
			Switching Circuits	Kolkata	A		
			Hindustan Control & equipment Ltd	kolkata	A	With fabrication & painting at unit II & MP Electrical Narendrapur	
			Maktel	Vadodara	A		
			Jakson	Greater Noida	A		
			Vidyut Control	Gaziabad	A		
			Adlec Power	Rohad (Jhajjar)	A		
			Conquerer Control System	Manesar	A	Condition apply ,upto 1250A	
			Control & Schematics	Hyderabad	A		
			Positronics	Vadodara	A		
			L&T	Mumbai / Coimbatore/ Ahmednagar	A		
			GE	Bangalore	A		
			C&S Electric	Noida / HARIDWAR	A		
			Schneider	Nasik	A		
			Pyrotech	Udaipur	A		
			Siemens	Kalwa	A		
			Tricolite	Sahibabad/ Manesar	A		
			Nitya Electrocontrols	Noida	A		
			Saravana Switchgear	Bengaluru	A		
13.2	LT Switchgear - Floor mounted Fixed type indoor LT Switchgear Panel ( MLDB )	CATI					
			Switching Circuits	Kolkata	A		
			Hindustan Control & equipment Ltd	Kolkata	A	With fabrication & painting at unit II & MP Electrical Narendrapur Prior Type Testing	
			Maktel	Vadodara	A		
			Jakson	Greater Noida	A		
			Vidyut Control	Gaziabad	A		
			Adlec Power	Rohad ( Jhajjar)	A		
			Conquerer Control System	Manesar	A	Condition apply ,upto 1250A	
			Control & Schematics	Hyderabad	A		
			Positronics	Vadodara	A		
			Schneider (formerly L&T)	Mumbai / Coimbatore/ Ahmednagar	A		
			GE	Bangalore	A		
			C&S Electric	Noida/ Haridwar	A		
			Schneider	Nasik	A		
			Pyrotech	Udaipur	A		
			Siemens	Kalwa	A		
			Tricolite	Sahibabad/Manesar	A		
			Schneider	Vadodara	A		
			Nitya Electrocontrols	Noida	A		
14	MV Switchgear Panel	CATI					
			BHEL	Bhopal	A	Upto 33KV	
			Megawin	Salem	A*	Upto 33KV	*SUBJECT RESOLUTION OF SITE ISSUES
			Schneider Electric India (Formerly L&T)	Ahmednagar	A	Upto 33KV	
			Siemens	Mumbai	A	Upto 33KV	
			ABB	Nasik	A	Upto 33KV	
			Schneider	Vadodara	a	Upto 11KV	
			Schneider (Salt lake works)	Kolkata	A	Upto 11KV	



21	CLAMPS & CONNECTORS & WELDING SLEEVES	CAT I			ELCTROMECH TRANSTECH	KOLKATA	A		
					EXALT	MUMBAI	A		
					KLEMMEN ENGG	CHENNAI	A		
					MEGHA ENGG	CHENNAI	A		
					MILIND	MUMBAI	A		
					EMI	MUMBAI	A		
					NOOTAN ENGG	MUMBAI	A		
					TAG CORPORATION	CHENNAI	A		
					ITPL	MUMBAI	A		
					RASHTRA UDYOG	KOLKATA	A		
					Premier Power Products	Chennai	A		
					PEE VEE ENGG	BANGALORE	A		
21.1	ACSR CONDUCTOR	CAT I			APAR INDUSTRIES	SILVASSA	A		
					CABCON	KOLKATA	A		
					DIAMOND	VADODARA	A		
					GALAXY	SANGLI	A		
					GUPTA POWER INFRA	BHUBANESWAR	A		
					HIRA CABLES	HIRAKUD	A		
					JSK	SILVASSA	A		
					LUMINO	KOLKATA	A		
					SARAVATHY	BANGALORE	A		
					HIREN ALUMINIUM	SILVASSA	A		
					SMITA	GHAZIABAD	A		
21.2	ALUMINIUM TUBE	CAT I			ALOM EXTRUSIONS UNIT-II	BALASORE	A		
					BANCO	VADODARA	A		
					CENTURY EXTRUSION	KOLKATA	A		
					HINDALCO	RENUKOOT	A		
					HINDALCO	ALUPURAM	A		
					JINDAL ALUMINIUM	BANGALORE	A		
					SUDAL	NASIK	A		
22	SUB STATION AUTOMATION SYSTEM (BCU, GRP, ENERGY METER, NUMERICAL RELAYS, SWITCHYARD PROTECTION)	CAT I			GE T&D	CHENNAI	A		
					ABB	PEENYA	A		
					SCHNEIDER	NOIDA	A		
					SIEMENS	KALWA/GOA	A		
					BHEL	BHOPAL	A		
23	AB Tariff energy meter	CAT I			SEMS	Udairpur/Solan	A		
					Elster	Mumbai	A		
					L&T	Mysore	A		For Model ER300P With CMS software.
24	SPV module	CAT I			BHEL	Bangalore	A		
					Warree	Surat	A		
					Emmvee	Bangalore	A		
					Vikram Solar	Parganas	A		
					Lanco Solar	Chattisgarh	A		
					Tata Power Solar	Bangalore	A		
					Alpex	Solan	A		
					Synergy	Durgapur	A		
					Photonix	Satara	A		
					HHV Solar	Bangalore	A		
25	Power Conditioning Unit (PCU)	CAT I			Schneider	Bangalore	A		Conditions apply
					ABB	Bangalore	A		Conditions apply
					Bongiglioli	Germany	A		Conditions apply
					Fecon	Germany	A		
					AEG	Bangalore	A		Conditions apply
					Hitachi-Hirel	Gandhinagar	A		Conditions apply
					Hitachi-Hirel	Sananad	A		Conditions apply
					Vacon	Bangalore	A		Conditions apply
25.1	String Monitoring Box (SMB)	CAT II			Trinity Touch	Palwal	A		Conditions apply
					Hensel	Sriperumbudur	A		Conditions apply
					AEG	Bangalore	A		Conditions apply
					Statcon	Pilkhua	A		Conditions apply
					Weidmuller	Spain	A		Conditions apply
25.2	EHV Cables	CAT I			Ijin Electric	South Korea	A		For 132KV & 220 KV only
					KEC International	Vadodara	A		Upto 220KV
					KEI Industries	Bhiwadi	A		Upto 132KV , 220KV
					Phelps Dodge	Bangkok	A		For 132 KV only
					LS CABLE & SYSTEM LTD	South Korea	A		Up to 400 KV
					LS CABLE & SYSTEM LTD	BHIWADI	A		Up to 132 KV
					Universal Cable Ltd.	Satna	A		Upto 132KV only
26	H.T. CABLE upto 33KV	CAT I			Apar Industries	Umbergaon	A		

			Gemscab	Bhiwadi	A		
			Gupta Power	Kashipur	A		
			Havells India Ltd.	Alwar	A		
			KEC International	Vadodara	A		
			KEI Industries	Bhiwadi	A		
			Krishna Electrical Industries Ltd	Gwalior	A		
			Polycab Wires Pvt. Ltd	Daman	A		
			Sri ram Cables	Bhiwadi	A		
			Tirupati Plastomatics	Jaipur	A		
			Torrent Cable Ltd	Nadaid	A		
			CMI	Baddi	A		
			Universal Cable Ltd.	Satna	A		
27	1.1 KV LT Power Cables (Type- XLPE Insulated, PVC sheathed (incl FRLS)	Refer Note-5					
			Advance Cable	Bengaluru	A		
			Apar Industries Ltd	Umbergaon	A		
			Cords Cables	Bhiwadi	A		
			CMI	Baddi	A		
			Delton Cable Ltd	Faridabad	A		
			Dynamic Cables	Jaipur	A		
			Gemscabs Industries	Bhiwadi	A		
			Gupta Power Cables	Khurda	A		
			Havells India Ltd.	Alwar	A		
			KEC International	Silvassa , Mysore	A		
			KEI Industries	Bhiwadi	A		
			Paramount Cable	Khushkhhera	A		
			Polycab Wires Pvt. Ltd	Daman	A		
			Ravin Cables	Pune	A		
			Special Cables	Rudrapur	A		
			Suyog Cables	Vadodara	A		
			Thermocables	Hyderabad	A		
			Tirupati Plastomatics	Jaipur	A		
			Torrent Cable Ltd	Nadiad	A		
			Universal Cable Ltd.	Satna	A		
28	LT Control Cable 1.1 KV, Type - PVC (incl FRLS)	Refer Note-5					
			Advance Cable	Bengaluru	A		
			Apar Industries Ltd	Umbergaon	A		
			Cords Cables	Bhiwadi	A		
			CMI	Faridabad	A		
			CMI	Baddi	A		
			Delton Cable Ltd	Faridabad	A		
			Elkay Telelink	Faridabad	A		
			Gemscabs Industries	Bhiwadi	A		
			Goyoline Fibres (I) Ltd	Daman	A		
			Gupta Power Cables	Khurda	A		
			Havells India Ltd.	Alwar	A		
			KEC International	Silvassa , Mysore	A		
			KEI Industries	Bhiwadi	A		
			Paramount Cable	Khushkhhera	A		
			Polycab Wires Pvt. Ltd	Daman	A		
			Ravin Cables	Pune	A		
			Special Cables	Rudrapur	A		
			Suyog Cables	Vadodara	A		
			Thermocables	Hyderabad	A		
			Tirupati Plastomatics	Jaipur	A		
			Torrent Cable Ltd	Nadiad	A		
			Universal Cable Ltd.	Satna	A		
29	DC Batteries (Ni-Cd type BATTERY)	CAT I					
			HBL-Power System	Hyderabad	A		Up to 990 Ah with conditions
							8Ah to 990Ah- KPH type
			Saft India	Bangalore	A		10Ah to 1365 Ah- KPM type
							11Ah to 1550Ah - KPL type
30	BATTERY CHARGER ( 48V/110V/220V)	CAT I					
			Amararaja	Tirupati	A		
			HBL- Power System	Hyderabad	A		
			Chhabi electrical	Jalgaon	A		
			EXIDE	Kolkatta	A		
			Statcon	Hapur	A		Up to 220 V, 850 A
			Dubas	Bangalore	A		Up to 220 V, 800 A
30.1	Battery Health Monitoring System	CAT I					
			Chloride Power	Kolkatta	A		
			HBL- Power System	Hyderabad	A		
			Exide	Kolkata	A		
31	GI CABLE TRAYS AND ACCESSORIES ( LADDER & PERFORATED TYPE), fitting & accessories including bends	Refer Note-6					
			Inar Profiles Ltd	Enkapalli (Vishakhapatnam)	A		
			Vatco	Mumbai	A		Galvanization at Sigma Mumbai
			Indiana cable trays	Mumbai	A		Galvanization at Karamtara galvanizer- Mumbai

OLD NAME: CHLORIDE POWER

			Industrial Perforation	Kolkata	A	Galvanized and offered for inspection at Industrial Perforation Pvt Ltd, Ganganagar , Kolkata, WB
			Ratan Projects	Howrah	A	Galvanization at DMP Projects- Howrah
			India Electric Syndicate	Kolkata	A	Galvanization at BMW Industries/B.P Projects- Howrah
			Steelite engg.	Mumbai	A	
			Premier Power Products	Howrah	A	Galvanising at Neha Galvaniser- Howrah
			Indiana Gratings	Pune	A	
			M.J. Engineering	Okhla/ Bhiwadi	A	
			Maheshwari	Ghaziabad	A	Galvanization at NTPC approved Galvaniser.
			T.R.G	Chennai	A	Galvanization at TM Radhakrishna Chetty & Co-Chennai
			Amtech	Pune	A	Galvanization at B.G. Shirke - Pune
			Kannade Anand Udyog	Mumbai	A	- Fabrication at their units: Plot No. 42, Morivali, MIDC, Thane & Plot No.: D-35 Anand Nagar MIDC, Addl. Ambernath , Thane - Galvanization and offer the galvanized trays for inspection at: Plot No. D-34 Anand Nagar MIDC, Addl. Ambernath, Thane
			Rukmani	Raipur	A	Ladder type cable trays only
			Passive Infra	Hasangarh (Rohtak)	A	
			Unitech Fabricators & Engineers	Howrah/ Hoogly	A	
			Patny System	Hyderabad	A	
			Rabi Engg.	Kolkata	A	
			MKSD Industries	Taloja	A	Galvanizing from NTPC approved sources
			Reliable Sponge	Kalunga	A	Galvanization from Encorp Power Trans- Palghar
			Pinax Steel	Patna	A	
			Rukmani	Hoogly	A	Galvanization at Rukmani Fab & Gal- Howrah
31.1	GI FLEXIBLE CABLE TRAY SUPPORT SYSTEM	Refer Note-6				
			Vatco	Mumbai	A	Galvanising at Sigma Mumbai
			Inar profiles	Enkapalli	A	
			Industrial perforations	Kolkata	A	
			Premier power products	Howrah	A	Galvanising at Neha Galvaniser- Howrah
			Steelite engg.	Mumbai	A	
			Indiana gratings	Pune	A	Galvanising at Poona Galvaniser- Pune
			Amtech	Pune	A	Galvanising at B.G. Shirke- Pune
			Ratan Projects	Howrah	A	Galvanization at NTPC approved sources
			Patny Systems	Hyderabad	A	
32	Galvanised Steel Structure	CAT II				
			Sangam Structural Ltd	Prayagraj	A	Galvanising at NTPC approved sources
			RS Infraprojects	Ghaziabad	A	
			Anil Steels	Rohtak	A	
			Jamuna Metals	Delhi	A	
			Pioneer Fabricators	Meerut	A	
			Passive Infraprojects	Rohtak	A	
			PAVITRA INDUSTRIES	HYDERABAD	A	GALVANISATION TO BE DONE FROM GURPREET GALVANIZERS HYDERABAD
33	Elevator (Gear Type)	CAT I				
			Otis	Mumbai	A	
			Kone	Chennai	A	Gear Type and MRL Type
			Techno	Ahmedabad	A	Gear Type and MRL Type
			Omega	Ahmedabad	A	
			ECE	Ghaziabad	A	
			Semel Eltec	S Korea	A	
34	IPBD	CAT I				
			BHEL	Rudrapur	A	
			C&S ELECTRIC	Haridwar	A	
35	SPBD	CAT I				
			BHEL	Rudrapur	A	
			C&S	Greater Noida	A	
			C&S	Haridwar	A	
			GODREJ & BOYCE MANUFACTURING COMPANY LTD	Bangalore	A	
			Powergear	Hindupur	A	
			Powergear	Chennai / Bangalore	A	
			KGS Engg.	Chennai	A	
35.1	Air Insulated Non Segregated phase type LT busduct	CAT I				
			C&S Electric	G.Noida	A	
			C&S Electric	HARIDWAR	A	
			Unilec	Gurgaon	A	Upto 3200 A
			Stardrive	Chennai	A	
			Spaceage Swgr Ltd	Bawal	A	
			REEP	Chennai	A	

				Enpro	Chennai	A		
				Nitya Electrocontrols	Noida	A		
35.2	Sandwiched type LT Busduct	CAT I		Godrej	Bangalore	A		
				Henikwon	Malaysia	A		
				C&S	HARDWAR	A		
36	HVR Transformer & EC Panel	CAT I		ADOR Powertron	Pune	A		
				BHEL	Jhansi	A		
37	Panel Type Hopper Heater	CAT I		HTD	USA	A		
				Hotfoil EHS	USA	A		
				HTD HEAT TRACE(I) Pvt Ltd	Hyderabad	A		
				Thermon	USA	A		
				Thermopads(Unit-II)	Jeedimetla	A		
				Thermon	Pune	A		
38	Neutral Grounding Transformer	CAT II		Pragati Electrical Pvt. Ltd.	Mumbai	A		
				Bharat Bijlee Ltd.	Navi Mumbai	A		
				Pravog Electrical Ltd.	Pune	A		
				Andrew Yule	Chennai	A		
39	Rectifier Panel For Hydrogen Generation Plant	CAT I		RUTTONSHA INTERNATIONAL RECTIFIERS LTD	HALOL, GUJRAT	A		
				Hind Rectifier	MUMBAI/NASIK	A		
40	132 KV cable termination & straight through jointing kits	CAT I		Ijin	South Korea	A		
				ABB Kabledon	Sweden	A		
				Pfisterer AG	Switzerland	A		
				Tyco Electronics Raychem GmbH	Germany	A		
41	Cable Termination kits and straight through jointing kits	CAT II		3M Electro & communication	Pune	A		Upto 33KV
				Ravchem	Mumbai	A		Heat shrinkable type upto 33KV
42	Lighting Mast with raise & Lower Type Lantern Carriage / Polygonal Poles	CAT I		Bajaj	Pune	A		
				BP Projects	Kolkata	A		
				Skipper	Howrah	A		
				Transrail Lighting	Silvassa	A		
42.1	Lighting poles- Tubular/ polygonal	CAT I		Main contractor approved sources having BIS Licensee/ ISI marked with CML Number				
42.2	Lighting fixtures with accessories (Filament type)	CAT I		Crompton	Mumbai	A		
				Bajaj Electricals	Mumbai	A		
				Philips	Noida	A		
				Wipro	Mumbai	A		
				Surva Roshni	Noida	A		
42.3	Lighting fixtures with accessories ( LED type)	CAT I		Wipro	Pune	A		
				Surya Roshni	Noida	A		
				Bajaj	Mumbai	A		
				Philips	Noida	A		
				Pyrotech	Udaipur	A		
				Mika	Thane	A		
42.4	LED Aviation Obstruction Lights	CAT I		Instapower	Roorkee	A		Medium and High Intensity
43	DG SET( ASSMEBLER & TESTING)	CAT I		Kohler	Singapore	A		Up to 1500 KVA ,11KV
				CLIS	Singapore	A		Up to 1250 KVA, 415 V,
				Powerica	Silvasa	A		Up to 2000 KVA, 415 V & 1500 KVA, 11 KV
				Jakson Unit-II	Kathua	A		Up to 11KV, 1500KVA
				Jakson	Kathua	A		Up to 415 V, 2000 KVA
				Sterling Generators Pvt Ltd	Silvasa	A		Up to 415 V 2000 KVA
				Supernova	Rajpur	A		Up to 415 V 2000 KVA
43.1	ALTERNATOR	CAT I		Kirloskar Electric	Bangalore	A		415 V alternators
				Cummins Generator Technology (Stamford )	U.K	A		415 V & 11 KV alternators
				Leroy Somer	France	A		Up to 11KV alternator 3500 kW
				Marathan	USA	A		Alternators for up to 415 V, 1500 KVA DG SET
				Cummins Generator Technology (Stamford )	Ahmednagar	A		415 V Alternators up to 1600 KVA
				Toyo Denki Power System	Bangalore	A		11 KV, 1500 KVA
43.2	DG Set Control panel / Synchronising panel	CAT I						

				L&T	Mumbai / Coimbatore/ Ahmednagar	A		
				GE	Bangalore	A		
				Siemens	Mumbai	A		
				C&S Electric	Noida / HARIDWAR	A		
				Schneider	Nasik	A		
				Unilec	Gurgaon	A		
				Nitya Electrocontrols	Noida	A		
				Switching Circuits	Kolkata	A		
				Tricolite	Sahibabad / Manesar	A		
				Hindustan Control & equipment Ltd	Kolkata	A		With fabrication & painting at unit II & MP Electrical Narendrapur
				Maktel	Vadodara	A		
				Jakson	Greater Noida	A		
				Vidyut Control	Gaziabad	A		
				Adlec Power	Rohad (Jhajjar)	A		
				Pyrotech	Udaipur	A		
				Anand Power Ltd.	Noida	A		
				Positronics	Vadodara	A		
				Control & Schematics	Hyderabad	A		
				Sterling Generators Pvt Ltd	Silvasa	A		
				Jackson	Kathua	A		11 KV, 1500 KVA
				Supernova	Rajpur	A		
	<b>A- MAJOR COMPONENTS OF BHEL MAKE GENERATOR (AS PER OEM SPECIFIC DESIGN)::</b>							
44	STATOR FRAME FABRICATION	CAT I			BHEL-HEEP	HARIDWAR	A	
44.1	STATOR FRAME MACHINING	CAT II			BHEL-HEEP	HARIDWAR	A	
45	SPRING BASKET	CAT II			BHEL-HEEP	HARIDWAR	A	
45.1	CORE BAR	CAT II			BHEL-HEEP	HARIDWAR	A	
45.2	FLUX TRAP	CAT II			BHEL-HEEP	HARIDWAR	A	
45.3	FLAT SPRINGS AND BASKET ASEMBLY	CAT II			BHEL-HEEP	HARIDWAR	A	STAMPINGS FROM BHEL CSU JAGDISHPUR
45.4	RIPPLE SPRING	CAT II			KREMPAL GMBH	GERMANY	A	
45.5	TENSION BOLT FOR STATOR CORE (INSULATED)	CAT II			BHEL-HEEP	HARIDWAR	A	
45.6	CORE PRESS RING	CAT II			BHEL-HEEP	HARIDWAR	A	
46	ETS MATERIAL	CAT II						
		II			THYSSEN KRUPP ELECTRICAL STEEL	NASIK	A	
		II			ARCELOR MITTAL INTERNATIONAL	LUXAMBOURG	A	
		II			THYSSENKRUPP MATERIAL TRADING	GERMANY	A	
		I			POSCO	RAIGARH	A	
		I			JSW	BELLARY	A	
		II			ALLOVERZE	GERMANY	A	
47	STATOR LAMINATION	CAT II			BHEL-CSU	JAGDISHPUR	A	
48	BUS BAR CONNECTION TUBES	CAT II						
					LUVATA PORI	FINLAND	A	
					BUNT METAL	AUSTRIA	A	
					KME GERMANY GMBH & CO. KG	GERMANY	A	
48.1	CONNECTING BUS BAR	CAT I			BHEL	HARIDWAR	A	
49	SOLID COPPER CONDUCTOR (FOR STATOR BAR)	CAT I						
		I			PEARL INSULATIONS	BANGLORE	A	
		I			MAHENDRA INDUSTRIES	BANGLORE	A	
		II			VONROLL	SWITZERLAND	A	
		II			GEBAUER & GRILLER	AUSTRIA	A	
49.1	HOLLOW SS CONDUCTOR (STATOR BAR)	CAT II						
		II			FINE TUBES LTD.	ENGLAND	A	
50	OVER HANG SUPPORT RING	CAT II						
					ROECHLING ENGINEERING PLASTICS	GERMANY	A	
					POWER & COMPOSITE TECHNOLOGIES	USA	A	
51	WATER SUPPLY HOSE (INSULATED)	CAT I						
		II			DR SCHNABEL GMBH & CU KG LIMBURG	GERMANY	A	
		II			CRANE RESISTOFLEX	USA	A	
		I			MIL INDUSTRIES LIMITED	CHENNAI	A	
52	BAFFLE RING & BAFFLE RING CARRIER MACHINING	CAT I						

				BHEL-HEEP	HARIDWAR	A			
53	STATOR WINDING BAR	CAT I		BHEL-HEEP	HARIDWAR	A			
54	GENERATOR SHAFT FORGING	CAT II		BUDERUS EDELSTAHL	GERMANY	A			
				JSW	JAPAN	A			
				SAARSCHMIEDE	GERMANY	A			
				JCFC	JAPAN	A			
				PJSC Energomashpetstal	Ukraine	A			
				DOOSAN HEAVY INDUSTRIES & CONSTRUCTION CO. LTD.	SOUTH KOREA	A			
				SDF-TURNI	ITALY	A			
54.1	GENERATOR SHAFT MACHINING	CAT I		BHEL-HEEP	HARIDWAR	A			
55	CURRENT CARRYING BOLTS FOR ROTOR	CAT II		BHEL HEEP	HARIDWAR	A			
56	SILVER BEARING COPPER HOLLOW STRIPS (ROTOR COIL)	CAT II		BUNT METAL	AUSTRIA	A			
				BOASHIDA SWISS METAL	SWITZERLAND	A			
57	ROTOR COIL FORMING	CAT II		BHEL HEEP	HARIDWAR	A			
58	ROTOR SLOT ANGLE	CAT II		SAHNEY KIRKWOOD PVT. LTD.	NASIK	A			
				ABB SWITZERLAND LTD.	SWITZERLAND	A			
				VON ROLL ISOLA	FRANCE	A			
58.1	WEDGES FOR ROTOR (DAMPER +SLOT)	CAT II		KM EUROPA	GERMANY	A			
				BOASHIDA SWISS METAL	SWITZERLAND	A			
				LUVATA (OUTO KUMPU PORI)	FINLAND	A			
				BUNT METAL	AUSTRIA	A			
59	RETAINING RING	CAT II		SAARSCHMIEDE	GERMANY	A			
				ENERGIETECHNIK	GERMANY	A			
				JSW	JAPAN	A			
59.1	RETAINING RING MACHINING	CAT I		BHEL-HEEP	HARIDWAR	A			
60	FAN BLADE FOR COMPRESSOR M/C	CAT I		BHEL-HEEP	HARIDWAR	A			
60.1	FAN BLADE FOR COMPRESSOR (RAW MATERIAL) - HW10786 -X20Cr 13	CAT I		Refer Steam Turbine List for same grade material for blade bars		A			
60.2	COMPRESSOR HUB M/C & ASSEMBLY	CAT I		BHEL-HEEP	HARIDWAR	A			
61	BEARING SHELL FORGING (GENERATOR)	CAT II		BHEL-CFFP	HARIDWAR	A			
62	BEARING COMPLETE (EXCITER)	CAT I		RENK AG	GERMANY	A			
				ZOLLERN	BRAZIL	A			
				MICHELL BEARINGS (INDIA) LLP	BENGALURU	A			
				EURO BEARINGS	FARIDABAD	A			
				EURO BEARINGS	ITALY	A			
63	END SHIELD FABRICATION & MACHINING	CAT I		BHEL-HEEP	HARIDWAR	A			
64	TERMINAL BOX FABRICATION	CAT I		BHEL-HEEP	HARIDWAR	A			
64.1	TERMINAL BOX MACHING	CAT I		BHEL-HEEP	HARIDWAR	A			
65	HYDROGEN COOLER MAIN ITEMS	CAT I		BHEL-HEEP	HARIDWAR	A			
65.1	TUBES FOR COOLERS (BRASS / COPPER TUBES)	CAT II		MULTIMETALS	KOTA	A			
				Mehta Tubes Pvt Ltd	VAPI	A			
				METAL ALLOYS	JAMNAGAR	A			
65.2	FINNING OF COOLER TUBES	CAT I		LAXMI ENGINEERING INDUSTRIES	BHOPAL	A			
				LORD VISHWAKARMA HEAT EXCHANGE	HARIDWAR	A			
				FITWELL CORPORATION	BHOPAL	A			
65.3	HYDROGEN COOLER	CAT I		BHEL-HEEP	HARIDWAR	A			
66	PW COOLER & SEAL OIL COOLER	CAT I		BHEL-HEEP	HARIDWAR	A			
				ALFA LAVAL (INDIA) LIMITED	PUNE	A			
				TRANTRER INDIA PVT. LIMITED	PUNE	A			



		III			MITSUBISHI ELECTRIC	JAPAN	A		
		III			AUGUST KREMPPEL	GERMANY	A		
85	SOLID COPPER CONDUCTOR (FOR STATOR BAR)	CAT I							
		II			MITSUBISHI ELECTRIC	JAPAN	A		
		II			UNIMAC	JAPAN	A		
		I			MAHENDRA IND	BANGALORE	A		
		II			GEABUR AND GRILER	AUSTRIA	A		
		II			HITACHI MAGNET WIRE	JAPAN	A		
		I			PEARL INSULATION	BANGALORE	A		
		I			COSMOS	BANGALORE	A		
86	HOLLOW COPPER CONDUCTOR (STATOR BAR)	CAT I							
		II			UNIMAC	JAPAN	A		
		II			MITSUBISHI ELECTRIC	JAPAN	A		
		II			ISOLA	SWITZERLAND	A		
		I			MAHENDRA INDUSTRIES	BANGALORE	A		
		I			PEARL	BANGALORE	A		
		I			COSMOS	BANGALORE	A		
87	TERMINAL BUSHING (CONDENSER TYPE) (Lead Bushing)	CAT II							
		II			EMIL HAFLEY(TRENCH)	SWITZERLAND	A		
		II			MITSUBISHI ELECTRIC	JAPAN	A		
		II			TRENCH	SWITZERLAND	A		
88	SUPPORT BRACKET	CAT I							
		II			MITSUBISHI ELECTRIC	JAPAN	A		
		I			LMB	HAZIRA	A		
89	CONNECTING BUS BAR (PHASE BELTS) FABRICATION	CAT II							
		II			SUMIKI COPPER	JAPAN	A		
		II			MITSUBISHI ELECTRIC	JAPAN	A		
		II			HITACHI CABLE	JAPAN	A		
		II			ORIENTAL COPPER	THAILAND	A		
90	INSULATING HOSES FOR STATOR (WATER SUPPLY HOSES)	CAT I							
		II			SAKURA RUBBER	JAPAN	A		
		II			MITSUBISHI ELECTRIC	JAPAN	A		
		II			CRANE RESISTOFLEX	USA	A		
					DR SCHNABEL	GERMANY	A		
91	SHIELD PLATES / SHIELD CLAMPER	CAT I							
		III			MITSUBISHI ELECTRIC	JAPAN	A		
		I			RV ENGG	FARIDABAD	A		
		I			AK Multi metal	PUNJAB	A		CS Casting for Generator Bracket Hub of Bearing bracket, Ni-alloy casting for Generator Blower Shroud & Shield clamper, nodular cast iron casting for Shroud support.
92	STATOR WINDING ASSLY	CAT I							
		I			MITSUBISHI ELECTRIC	JAPAN	A		
		I			LMTG	HAZIRA	A		
93	GENERATOR SHAFT FORGING	CAT II							
					SAARCSHMEIDE	GERMANY	A		
					Buderus Edelstahl	GERMANY	A		
					JSW	JAPAN	A		
					SDF	ITALY	A		
					CRUIST FORCE	FRANCE	A		
					OMZ	RUSSIA	A		
					FORGE MASTER	UK	A		
					JCFC	JAPAN	A		
94	GENERATOR ROTOR MACHINING	CAT I							
		II			MITSUBISHI ELECTRIC	JAPAN	A		
		II			NUGO ROMANO	ITALY	A		
		I			LMTG	HAZIRA	A		
95	ETS MATERIAL (Core material)	CAT I							
		I			THYSSON KRUPP	NASIK	A		
		II			NIPPON	JAPAN	A		
		II			IFE	JAPAN	A		
		I			POSCO	RAIGARH	A		
		I			JSW	BELLARY	A		
		II			MITSUBISHI	JAPAN	A		
96	RETAINING RING FORGING(MAT-CrMn 1818)	CAT II							
					SAARCSHMEIDE	GERMANY	A		
					JSW	JAPAN	A		
					KOBE STEEL	JAPAN	A		

					FORTEH	FRANCE	A		
97	RETAINING RING MACHINING	CAT I							
		II			MITSUBISHI ELECTRIC	JAPAN	A		
		I			LMTG	HAZIRA	A		
98	SILVER BEARING COPPER HOLLOW STRIPS (ROTOR COIL)	CAT II							
					ORIENTAL COPPER	THAILAND	A		
					HITACHI CABLE	JAPAN	A		
					FURUKAWA ELECTRIC	JAPAN	A		
					KM EUROPA	GERMANY	A		
					OTOKUMPUTURI (Luvata)	FINLAND	A		
					GINDRE	FRANCE	A		
99	FIELD LEAD CORE BAR FOR ROTOR WITH D LEAD(RAW MATERIAL) (Field lead)	CAT II							
					ORIENTAL COPPER	THAILAND	A		
					BAOSHIDA SWISS METAL	GERMANY	A		
					KME	GERMANY	A		
					Agarwal industries (Fabrication)	Mandideep	A		
					Rachna Metals (Raw material)	GHAZIABAD	A		
					INDIAN METAL & ALLOY	KOLKATA	A		
					HITACHI CABLE	JAPAN	A		
100	CURRENT CARRYING BOLTS FOR ROTOR (Radial Lead)	CAT II							
					MITSUBISHI ELECTRIC	JAPAN	A		
101	ROTOR COIL FORMING	CAT I							
		II			MITSUBISHI ELECTRIC	JAPAN	A		
		I			LMTG	HAZIRA	A		
102	STATOR Coil Manufacturing	CAT I							
					MITSUBISHI ELECTRIC	JAPAN	A		
					LMTG	HAZIRA	A		
103	ROTOR SLOT WEDGES & DAMPER WEDGES FABRICATION & MACHINING (Rotor wedge & Damper bar)	CAT II							
					MITSUBISHI ELECTRIC	JAPAN	A		
					MURAKAMI	ompress	A		
					FIAY	ITALY	A		
					OTOKUMUPORI (LUVATA)	FINLAND	A		
					METALLURGICA MINOTI	ITALY	A		
					Damper Wedges - Gindre India Components Pvt. Ltd	Gurgaon	A		
104	ROTOR WINDING ASSLY (GEN) INCL ROTOR WEDGES (Rotor winding)	CAT I							
					MITSUBISHI ELECTRIC	JAPAN	A		
					LMTG	HAZIRA	A		
105	GENERATOR ROTOR-FINAL assembly & Balancing Process (Rotor final assembly & HSB)	CAT I							
					MITSUBISHI ELECTRIC	JAPAN	A		
					LMTG	HAZIRA	A		
106	COMPRESSOR BLADE ASLY ON ROTOR (Part of generator final assembly)	CAT I							
					MITSUBISHI ELECTRIC	JAPAN	A		
					LMTG	HAZIRA	A		
107	D LEAD (FL CORE BAR) & CONTACT BOLT FOR SLIP RING (Axial lead)	CAT II							
					MITSUBISHI ELECTRIC	JAPAN	A		
108	TUBES FOR CONNECTING BUS BAR (Phase ring tubes)	CAT II							
					ORIENTAL COPPER	THAILAND	A		
					ALCOBEX	JODHPUR	A		
					SH Copper	Japan	A		
					IPCL	BHAVNAGAR	A		
					HITACHI CABLE	JAPAN	A		
109	END SHIELD FABRICATION & MACHINING (Generator Bearing Bracket)	CAT I							
					MITSUBISHI ELECTRIC	JAPAN	A		For End Shield Fabrication Only

				SHAPE	HARIDWAR	A			
				MANJUNATH	BANGLORE	A			
110	BEARING SHELL(GEN& SLIP RING)-FORGING (part of generator Bearing)	CAT II							
				mitsubishi electric	JAPAN	A			
				OMEGA THERMIT	BHOPAL	A			
				DUM DUM	KOLKATA	A			
				EURO BEARING	ITALY	A			
111	CENTERING RING FORGING (END PLATE)	CAT I							
		I		GOODLUCK	GHAZIABAD	A			
		II		NISHIMAKI IRON WORKS	JAPAN	A			
		I		BAY FORGE	CHENNAI	A			
112	BEARING SHELL (GEN & SLIP RING) M/C (Generator bearing)	CAT III							
				DSE	KOREA	A			
				DYM	KOREA	A			
				mitsubishi electric	JAPAN	A			
				OMEGA THERMIT	BHOPAL	A			
				DUM DUM	KOLKATA	A			
				EURO BEARING	ITALY	A			
				WAUKESHA BEARING	USA	A			
113	INTERMEDIATE RING FORGING (Space ring forging)	CAT I							
				Good luck (For forging)	FARIDABAD	A			
				LMTG (For m/c)	Hazira	A			
114	PRIMARY WATER PUMP	CAT I							
				MATHER & PLATT	PUNE	A			
				KSB INDIA	Nasik	A			
				SULZER PUMPS	NAVI MUMBAI	A			
				EBARA SEISAKUSHO	JAPAN	A			
115	HYDROGEN DRIER	CAT I							
		I		JINDAL	ROORKEE	A			
		II		mitsubishi electric	JAPAN	A			
116	TUBES FOR COOLERS (BRASS/COPPER TUBES) (GENERATOR) (Gas cooler tubes)	CAT I							
				ALCOBEX	JODHPUR	A			
				MULTIMETAL	KOTA	A			
117	PW PUMP & FILTER UNIT ASSEMBLY (SKID)	CAT I							
		II		mitsubishi electric	JAPAN	A			
		II		JIMC	KOREA	A			
		I		LMTG	HAZIRA	A			
		I		LINCOLN	PUNE	A			
118	PW COOLER & SEAL OIL COOLER	CAT I							
		I		ALFA LAVAL	PUNE	A			
		II		JIMC	KOREA	A			
		I		TRANTER	PUNE	A			
119	SLIP RING FORGING & MACHINING	CAT II							
				LMTG (For machining)	Hazira	A			
				Good luck (For forging)	FARIDABAD	A			
120	DC LEAD ASSLY FOR SLIP RING (Slip ring lead)	CAT I							
		II		mitsubishi electric	JAPAN	A			
		I		LMTG	HAZIRA	A			
121	SLIP RING ASSLY (Part of Generator Final assembly)	CAT I							
				LMTG	HAZIRA	A			
122	SLIP RING SHAFT ASSLY	CAT II							
				mitsubishi electric	JAPAN	A			
123	AIR COOLER FOR BRUSH GEAR (Slip ring fan)	CAT I							
				LMTG	Hazira	A			
124	SEAL OIL PUMP	CAT I							
		I		TUSHACO PUMP	DAMAN	A			
		II		KOSAKA LABORATORY	JAPAN	A			
		II		SHIMADZU	JAPAN	A			
125	FAN BLADE FORGING & MACHINING (Blade for slip ring fan)	CAT I							
		II		MURAKAMI SEISAKUSHO	JAPAN	A			
		I		STAR WIRE	BALLABHGARH	A			
		II		mitsubishi electric	JAPAN	A			

		I		GOODLUCK ENGG	GHAZIABAD	A		
126	SEAL OIL VALVE RACK	CAT II		JMC	KOREA	A		
127	SEAL OIL STORAGE TANK (LOOP SEAL TANK)	CAT I		JMC	KOREA	A		
				Gujarat infra	Vadodara	A		
				Shree sarjan	Vadodara	A		
128	HYDROGEN COOLER (Gas cooler)	CAT I		KITASHIBA ELECTRIC	JAPAN	A		
				ENERGEN	KOREA	A		
				GEA	GERMANY	A		
				LAXMI	BHOPAL	A		
129	CARBON BRUSH	CAT II		MORGAN	KOREA	A		
				MERSEN	BANGLORE	A		
				VIDYUT CARBON	HARDWAR	A		
				ASSAM CARBON	KOLKATA	A		
130	EXCITATION SYSTEM	CAT I		ALSTOM	FRANCE	A		
				ABB	SWITZERLAND	A		
				SIEMENS	AUSTRIA	A		
				BHEL	BANGLORE	A		
				mitsubishi electric	JAPAN	A		
131	EXCITATION TRANSFORMER	CAT I		REFER SEPARATE LIST				
132	EXCITATION AC/DC BUS DUCT	CAT I		REFER SWITCHGEAR AND BUS DUCT LIST				
133	END WINDING VIBRATION SYSTEM	CAT II		IRIS	Canada	A		
				Vibro systems	Canada	A		
134	Rotor slot angle (Slot cell)	CAT II		PCT	USA	A		
				MITSUBISHI ELECTRIC	JAPAN	A		
				VON ROLLA ISOLA	FRANCE	A		
135	CENTRING RING & INTERMEDIATE RING MACHINING (End plate & space ring)	CAT I		MITSUBISHI ELECTRIC	JAPAN	A		
				Good luck (For forging only)	Faridabad	A		
				LMTG (For machining)	HAZIRA	A		
136	ROTOR FLUX MONITORING SYSTEM	CAT II		GE	USA	A		
				MITSUBISHI ELECTRIC	JAPAN	A		
				Vibro systems	Canada	A		
				IRIS	CANADA	A		
137	FIELD LEAD CORE BAR FOR ROTOR WITH D LEAD	CAT II		MITSUBISHI ELECTRIC	JAPAN	A		
138	Generator Blower shroud	CAT I		RV Casting	Faridabad	A	(M/C by LMTG)	
139	Bearing Bracket Hub casting	CAT I		VAISHNOV STEEL	MUZAFFAR NAGAR	A		
				LMTG HCU	Hazira	A		
140	Shroud support	CAT I		RV Casting	Faridabad	A	(M/C by LMTG)	
141	Blower hub Forging	CAT I		Goodluck	Gaziabad	A	(M/C by LMTG)	
142	Bore ring Forging	CAT I		CHW	Greater noida	A	(M/C by LMTG)	
143	Rotor & stator blade	CAT I		LMTG (for machining)	Hazira	A		
				Star wire ( For Rotating blade raw material)	BALLABHGARH	A		
				As per NTPC approved list ( For ST blade raw material also)		A		
144	Center wedge & end wedge machining	CAT I		Moldpro	Vadodara	A		
NOTE	<p>1.CHECKS FOR STATOR CORE ASSLY, STATOR WINDING ASSEMBLY, ROTOR WINDING ASSLY.(GEN.), GENERATOR ROTOR -FINAL, BEARING ASSEMBLY/SHAFT SEAL ASSEMBLY, EXCTTER ASSLY (MAIN &amp; PILOT)/ SLIP RING SHAFT ASSEMBLY WITH BRUSH GEARS, EXCTTER TEST RUN, GENERATOR ASSEMBLY AT WORKS INCLUDING TERMINAL BUSHING &amp; GENERATOR WORKS RUN TEST SHALL BE FINALIZED DURING DETAILED ENGINEERING/MQP FINALIZATION FOR THE RESPECTIVE OEMs.</p> <p>2. For Raw Material/Components/Items of Generator which are not appearing in the above list, their OEM approved sources shall be tied up during Detailed Engineering/ MQP finalization.</p>							

C- MAJOR COMPONENTS FOR GE MAKE GENERATOR (AS PER OEM SPECIFIC DESIGN):									
145	Stator Frame with manhole cover (Fabrication & Machining)	CAT I			ALSTOM Power Sp. z o.o.,	Poland		A	
					Alstom Bharat Forge Power Limited	Sarand		A	
					ISGEC	YAMUNA NAGAR		A	
146	Key Bar (Fabrication & Machining)	CAT I			Bright Steel	UK		A	
		II			Jordan Matcon	Poland		A	
		II			ALSTOM Power Sp. z o.o	Poland		A	
		II			Somet	Poland		A	
		II			Empaz	Poland		A	Only M/c
		I			Shiv Engineering	vadodara		A	Only M/c
		I			Alstom Bharat Forge Power Limited	Sarand		A	Only M/c
		I			Shape Engg	Haridwar		A	Only M/c
147	Dovetail for Stator (Aluminium key profile)	CAT II			Sapa Profiles Kft.	Hungary		A	
					ALSTOM Power Sp. z o.o.	Poland		A	
					Somet	Poland		A	
148	End Pressure Plate (Laminated Press plate)	CAT II			ALSTOM Power Sp. z o.o.	Poland		A	
					Generpro	Sweden		A	
149	Stator Core Punching	CAT II			ALSTOM	France		A	
					ALSTOM Power Sp. z o.o.	Poland		A	
					Donako	Poland		A	
					Pitti Laminations	Hyderabad		A	
					BHEL	Jagdishpur		A	
150	Core Tension Bolt for Stator	I			Starwire	Ballabgarh		A	
		II			Boehler Ybстал Profil	Austria		A	
		II			Energetechnik Essen	Germany		A	
		II			Empaz	Poland		A	
		I			Kalyani carpenter	Pune		A	
151	Insulation of Core Tension Bolt for Stator	CAT II			Empaz	Poland		A	
					ALSTOM Power Sp. z o.o.	Poland		A	
152	Solid Copper Conductor for Stator Bar	CAT I			VonRoll	Switzerland		A	
					Pearl	Bangalore		A	
					Cosmos	Bangalore		A	
					Mahindra	Bangalore		A	
					Geaber & Greuller	Austria		A	
153	Hollow Stainless Steel Conductor for Stator Bar	CAT II			Fine Tubes	UK		A	
					Fischer	Austria		A	
154	Stator Bars	CAT I			ALSTOM Power Sp. z o.o.	Poland		A	
155	Tubes for Connection Bus Bar	CAT II			KME	Germany		A	
					Luvata Pori	Finland		A	
					Multimetal	Jamnagar		A	
156	Connection Bus Bar (Phase Connector)	CAT II			PPU Wojtera	Poland		A	
					ALSTOM Power Sp. z o.o.	Poland		A	
157	Insulating Hoses for Stator (Water Supply Hoses)	CAT II			Dr. Schnabel	Germany		A	
					Siemens	Germany		A	
					Crane Resistoflex	USA		A	
158	Winding Head Support Ring	CAT II			Röchling Permali	Germany		A	
					Kompoztyv	Poland		A	
					PCT	USA		A	
					Siemens	Germany		A	
					Texplas	Haridwar		A	
159	Spring for Winding Head Assembly (Console)	CAT II			Wolfensberger	Switzerland		A	
		CAT I			R V Engg	Ballabgarh		A	
160	Generator Shaft Forging	CAT II			Saarschmiede	Germany		A	

				Buderus	Germany	A		
				JSW	Japan	A		
				JCFE	Japan	A		
				SdF Terni	Italy	A		
				SUMITOMO	JAPAN	A		
				FORGEMASTER	UK	A		
				OMZ	RUSSIA	A		
161	Generator Shaft Machining	CAT I		Alstom (Switzerland) Ltd.	Switzerland	A		
				Alstom Bharat Forge Power Limited	Sanand	A		
162	Centering Ring Forging	CAT II		Bharat Forge	Pune	A		
				Schmiedewerk Stoss	Switzerland	A		
				FORGITAL SPA VELO D	Italy	A		
				ASTICO LOCALITA				
				Bay Forge	Chennai	A		
163	Centering Ring Machining	CAT II		Alstom (Switzerland) Ltd.	Switzerland	A		
				Bharat Forge Limited	Satara	A		
164	Retaining Ring FORGING (Mat.18-18Cr-Mn)	CAT II		Energietechnik Essen	Germany	A		
				Saarschmiede	Germany	A		
				JSW	Japan	A		
165	Retaining Ring Machining	CAT II		Alstom (Switzerland) Ltd.	Switzerland	A		
				Alstom Bharat Forge Power Limited	Sanand	A		
166	Rotor Copper Profile	CAT II		Swissmetall	Switzerland	A		
				Wieland	Germany	A		
				Buntmetall	Austria	A		
167	Field Lead Core Bar for Rotor	CAT II		Swissmetall	Switzerland	A		
				Buntmetall	Austria	A		
				Wieland	Germany	A		
168	Radial Bolt for Rotor	CAT II		Alstom	Switzerland	A		
				Starwire	Ballaigarh	A		
				Atals	Hydrabad	A		only for Machining
169	Rotor Coil Forming	CAT I		Alstom (Switzerland) Ltd.	Switzerland	A		
		CAT II		Alstom Bharat Forge Power Limited	Sanand	A		
		CAT I						
170	Rotor Slot Wedges & Damper wedges	CAT II		Swissmetall	Switzerland	A		
				Wieland	Germany	A		
				Luvata	Finland	A		
				Buntmetall	Austria	A		
171	Generator Rotor Final	CAT I		ALSTOM Power Sp. z o.o.	Poland	A		
				Alstom (Switzerland) Ltd.	Switzerland	A		
172	Hydrogen Blower	CAT II		FIMA	Germany	A		
172.1	Hydrogen Blower Assembly	CAT II		Alstom (Switzerland) Ltd.	Switzerland	A		
173	Terminal Bushing(Condenser type)	CAT II		Trench (Emily new name)	France	A		
				HSP	Germany	A		
174	Terminal Box Fabrication	CAT II		ALSTOM Power Sp. z o.o.	Poland	A		
				ISGEC	Yamunanagr	A		
				Shape Engg	Haridwar	A		
174.1	Terminal Box Machining	CAT II		ALSTOM Power Sp. z o.o.	Poland	A		
				Energy machines	Ahmedabad	A		
175	End Shield Fabrication	CAT I		ALSTOM Power Sp. z o.o.	Poland	A		
				Shape Engg	Haridwar	A		
				ISGEC	Yamunanagr	A		
175.1	End Shield Machining	CAT I		ALSTOM Power Sp. z o.o.	Poland	A		
				ISGEC	Yamunanagr	A		
				Energy Machines	Ahmedabad	A		
176	Seal Assembly (Ring & Housing)	CAT II		ALSTOM Power Sp. z o.o.	Poland	A		

177	Stator water cooler	CAT I			Alpha Laval	Sweden	A		
					GEA	Germany	A		
					TRANIER	Pune	A		
					IDMC Ltd	Anand	A		
178	Stator water cooling unit	CAT II			Rockfin	Poland	A		
179	Stator water cooling pump	CAT II			ALWELLER	GERMANY	A		
					KSB	Pune	A		
					Ebera	Japan	A		
					SULZER	Navi Mumbai	A		
180	Slip Ring Shaft Forging	CAT II			See Generator Forging Suppliers				
					Bharat forge	Pune	A		
					BAY FORGE	Chennai	A		
180.1	Slip Ring Shaft Machining	CAT II			Alstom (Switzerland) Ltd.	Switzerland	A		
					Euroflex Transmission(india) pvt. Ltd.	Hydrabad	A		
181	DC-Lead Assembly for Slip Ring	CAT II			Alstom (Switzerland) Ltd.	Switzerland	A		
181.1	Slip Ring Shaft Assembly	CAT I			Alstom (Switzerland) Ltd.	Switzerland	A		
					Euroflex Transmission(india) pvt. Ltd.	Hydrabad	A	Only M/c	
182	Seal Oil Pump	CAT I			Allweiler	Germany	A		
					Allweiler	DAMAN	A		
					UT PUMP	FARIDABAD	A		
183	Seal Oil Cooler	CAT I			GEA	Germany	A		
					Alpha Level	EUROPE	A		
					Alfa level	Satara	A		
					ALPHA LAVAL	Sweden	A		
					TRANIER	Pune	A		
184	Seal Oil Unit	CAT II			Rockfin	Poland	A		
185	Hydrogen Cooler	CAT I			GEA	Germany	A		
					Kelvion	Pune	A		
					Laxmi	Bhopal	A		
186	Hydrogen driver(Refrigrant Type)	CAT I			Jindal electrical	Roorkee	A		
					Melcon engg	G. NOIDA	A		
187	Copper connector between main rotor and slip ring shaft(radial stud)	CAT II			SWISS METAL	Switzerland	A		
					Pfisterer Sefag AG	Germany	A		
188	Carbon Brush & Holders	CAT III			Morgan	Germany	A		
					Vidhyut Carbon	Haridwar	A		
					National Carbon	Kolkata	A		
					G. Dietrich (belongs to CL)	Germany	A		
189	ETS Material	CAT I			Thyssen Krupp	NASIK	A		
		CAT I			Mitsubishi	Japan	A		
		CAT II			Arcelor	Luxemburg	A		
		CAT II			Salzgitter	Germany	A		
		CAT II			Alloverze	Germany	A		
		CAT I			JSW	BELLARY	A		
		CAT II			JFE	Japan	A		
190	Radial Leads (Slip Ring Shaft)	CAT II			Schmelzmetall AG	Switzerland	A		ALSO FOR SL.NO 71
191	Connection Rod for main Rotor	CAT II			Weiland werke	Germany	A		
					Swiss Metal	Switzerland	A		
192	Excitation System	CAT I			Alstom Power Sp. z o.o	Poland	A		
					GE power	NOIDA	A		
193	GHM(Generator health monitoring system)	CAT I			GE Power	Noida	A		
194	Excitation AC-DC Bus duct	CAT I			Etacom	Belgium	A		for Cast Resin
					REEP	Chennai	A		
					C&S	NOIDA	A		


NOTE	1. CHECKS FOR STATOR CORE ASSLY, STATOR WINDING ASSEMBLY, ROTOR WINDING ASSLY.(GEN.), GENERATOR ROTOR -FINAL, BEARING ASSEMBLY/SHAFT SEAL ASSEMBLY, EXCITER ASSLY (MAIN & PILOT)/ SLIP RING SHAFT ASSEMBLY WITH BRUSH GEARS, EXCITER TEST RUN, GENERATOR ASSEMBLY AT WORKS INCLUDING TERMINAL BUSHING & GENERATOR WORKS RUN TEST SHALL BE FINALIZED DURING DETAILED ENGINEERING/MQP FINALIZATION FOR THE RESPECTIVE OEMs. 2. For Raw Material/Components/Items of Generator which are not appearing in the above list, their OEM approved sources shall be tied up during Detailed Engineering/ MQP finalization.						
D- MAJOR COMPONENTS FOR TOSHIBA MAKE GENERATOR (AS PER OEM SPECIFIC DESIGN):							
195	STATOR FRAME WITH MAN HOLE COVER FABRICATION & MACHINING	CAT I			TOSHIBA	JAPAN	A
					TJPS	CHENNAI	A
196	KEY BAR FABRICATION AND MACHINING	CAT I			TOSHIBA	CHENNAI	A
					Kalyani Carpenter (Material)	Pune	A
					Punj Lloyd (Machining)	Gwalior	A
197	KEY BAR ASSEMBLY	CAT I			TOSHIBA	JAPAN	A
					TJPS	CHENNAI	A
198	DOVETAIL FOR STATOR	CAT I			TOSHIBA	JAPAN	A
					TJPS	CHENNAI	A
199	END PRESSURE PLATE - Fabrication						
		II			TOSHIBA	JAPAN	A
		I			TJPS	CHENNAI	A
199.1	End Pressure Plate - Machining	CAT II					
					TJPS	CHENNAI	A
					Sharp Engineering	Pune	A
					N.S Engg	Hyderabad	A
200	STATOR CORE PUNCHING						
		I			TJPS	CHENNAI	A
		II			TOSHIBA	JAPAN	A
201	TERMINAL BOX FABRICATION & MACHINING						
		II			TOSHIBA	JAPAN	A
		I			TJPS	CHENNAI	A
		I			Leo Prime	Chennai	A
202	OVER HANG SUPPORT RING	CAT II					
					HITACHI CHEMICAL	JAPAN	A
203	SOLID COPPER CONDUCTOR (FOR STATOR BAR)	CAT II					
					UNIMAC	JAPAN	A
204	HOLLOW COPPER CONDUCTOR (FOR STATOR BAR)	CAT II					
					UNIMAC	JAPAN	A
205	TERMINAL BUSHING (CONDENSER TYPE)	CAT II					
					PASSONI & VILLA	ITALY	A
					Trench	Switzerland	A
					Toshiba	Japan	A
206	CONNECTING BUS BAR (PHASE BELTS ) FABRICATION	CAT II					
					SUMIKEI COPPER	JAPAN	A
					Oriental Copper	Thailand	A
					Hitachi Cable	JAPAN	A
207	INSULATING HOSES FOR STATOR (WATER SUPPLY HOSES)	CAT II					
					SAKURA RUBBER	JAPAN	A
					CRANE RESISTOFLEX	USA	A
					MIL	Chennai	A
208	GENERATOR SHAFT FORGING	CAT II					
					SAARCSHMEIDE	GERMANY	A
					SDF ITALY	ITALY	A
					JCEC	JAPAN	A
					JSW	JAPAN	A
					RUDERUS EDESTAHL	GERMANY	A
					Doosan	Korea	A
208.1	GENERATOR SHAFT MACHINING	CAT I					
					TOSHIBA	JAPAN	A
					TJPS	CHENNAI	A
209	ETS MATERIAL	CAT II					
					NIPPON	JAPAN	A
					JFE	JAPAN	A
210	RETAINING RING FORGING (MAT-CrMn 18-18)	CAT II					
					SAARCSHMEIDE	GERMANY	A
					JSW	JAPAN	A
210.1	RETAINING RING MACHINING	CAT II					
					TOSHIBA	JAPAN	A
					TJPS	Chennai	A
211	SILVER BEARING COPPER HOLLOW STRIPS (ROTOR COIL)	CAT II					
					ORIENTAL COPPER	THAILAND	A
212	FIELD LEAD CORE BAR FOR ROTOR WITH D LEAD	CAT II					

				KME	GERMANY	A		
				ORIENTAL COPPER	THAILAND	A		
				BAOSHIDA SWISS METAL	GERMANY	A		
213	CURRENT CARRYING BOLTS FOR ROTOR	CAT II						
				TOYO KOGYO	JAPAN	A		
				TOSHIBA	JAPAN	A		
214	ROTOR COIL FORMING	CAT II						
				TOSHIBA	JAPAN	A		
				TJPS	Chennai	A		
215	ROTOR SLOT WEDGES & DAMPER WEDGES FABRICATION & MACHINING	CAT II						
				MURUKAMI	JAPAN	A		
				FIAY	ITALY	A		
				TOSHIBA	JAPAN	A		
216	GENERATOR ROTOR -FINAL	CAT I						
				TOSHIBA	JAPAN	A		
				TJPS	Chennai	A		
217	MOLDED INSULATION RING (FAN NOZZLE RIM)	CAT I						
		II		PCT	USA	A		
		I		PERMALI WALLACE	Bhopal	A		
218	FAN BLADE ASLY ON ROTOR							
		II		TOSHIBA	JAPAN	A		
		I		TJPS	Chennai	A		
219	D LEAD (FL CORE BAR )& CONTACT BOLT FOR SLIP RING							
		I		TJPS	Chennai	A		
		II		TOSHIBA	JAPAN	A		
220	END SHIELD FABRICATION & MACHINING	CAT I						
				SHAPE	HARIDWAR	A		
				TJPS	Chennai	A		
221	Bearing (CE & TE)							
		II		DSE	Korea	A		
		I		Omega Renk	Bhopal	A		
		II		DYM	Korea	A		
222	CENTERING RING FORGING							
		I		BAY FORGE	CHENNAI	A		
		II		MINATO KIRO	JAPAN	A		
		II		NISHIMAKI IRON WORKS	JAPAN	A		
		I		GOODLUCK	GHAZIABAD	A		
223	SEAL ASSLY (RING & HOUSING)	CAT II						
				TOSHIBA	JAPAN	A		
224	SLIP RING SHAFT ASSLY							
		I		TJPS	Chennai	A		
		II		TOSHIBA	JAPAN	A		
225	FAN BLADE FORGING & MACHINING							
		II		MURAKAMI SEISAKUSHO	JAPAN	A		
		I		TJPS	Chennai	A		
		I		Azad	Hyderabad	A		
		II		TOSHIBA	JAPAN	A		
226	HYDROGEN COOLER	CAT II						
				ENERGYEN	KOREA	A		
				KITASHIBA ELECTIRC	JAPAN	A		
				Karnataka Gas Coolers	Bangalore	A		
227	AC/DC BUSDUCT	CAT I						
				SPACEAGE	GURGAON	A		
				REEP	CHENNAI	A		
				C&S ELETRIC	NOIDA/HARIDWAR	A		
228	EXCITATION TRANSFORMER (DRY TYPE)	CAT I						
				RITZ	GERMANY	A		UPTO 8 MVA
				BHEL	JHANSI	A		UPTO 6 MVA
229	EXCITATION SYSTEM	CAT I						
				TOSHIBA	JAPAN	A		
				ABB	Bangalore	A		
230	HYDROGEN DRIER	CAT I						
				JINDAL ELECTRONICS	ROORKEE	A		
				MELCON ENGG	GREATTER NOIDA	A		
				SPAN MANUFACTURING CO PVT.LTD	ROORKEE	A		
NOTE	1. CHECKS FOR STATOR CORE ASSLY, STATOR WINDING ASSEMBLY, ROTOR WINDING ASSLY.(GEN.), GENERATOR ROTOR -FINAL, BEARING ASSEMBLY/SHAFT SEAL ASSEMBLY, EXCITER ASSLY (MAIN & PILOT)/ SLIP RING SHAFT ASSEMBLY WITH BRUSH GEARS, EXCITER TEST RUN, GENERATOR ASSEMBLY AT WORKS INCLUDING TERMINAL BUSHING & GENERATOR WORKS RUN TEST SHALL BE FINALIZED DURING DETAILED ENGINEERING/MQP FINALIZATION FOR THE RESPECTIVE OEMS. 2. For Raw Material/Components/Items of Generator which are not appearing in the above list, their OEM approved sources shall be tied up during Detailed Engineering/ MQP finalization.							
<b>Items Identified as Main Contractor approved sources</b>								
MC 1	Tubular Type Heater	CAT III						
MC 2	Interlocks for ESP	CAT III						
MC 3	Porcelain Bushing Insulators	CAT III						
MC 4	Continous Cast Copper Rod	CAT III						
MC 5	Unimpregnated Densified Wood	CAT III						



MC 65	Lighting fixtures with accessories (Filament type)	CAT II								
MC 66	Lighting fixtures with accessories ( LED type)	CAT II								
MC 67	HFTR SET (Power Plus)	CAT I								
MC 68	Insulators for ESP (Bushing, Support , Shaft)	CAT III								
MC 69	Fire sealing system - Type A Material supplier	CAT II								
MC 70	Fire sealing system - Type B Material supplier	CAT III								
MC 71	Executing agency for Fire sealing system	CAT I								
MC 72	Porcelain Insulator	CAT III								
MC 73	Lighting & Welding Transformer	CAT III								
MC 74	Industrial /Welding receptacle & boxes	CAT III								
MC 75	LT switchgear - wall mounted fixed type indoor/outdoor LT switchgear non compartmentalized panel (lighting panels/ AC/DC fuse boards etc)	CAT II								
NOTE	<b>L2 LIST OF MAJOR EQUIPMENT (POWER TRANSFORMER)</b>									SOURCES FOR THESE ITEMS SHALL BE FINALIZED DURING DETAILED ENGINEERING AND MQP FINALIZATION
1	CRGO STEEL	CAT II								
2	TANK FABRICATION	CAT II								
3	CRGO PROCESSORS	CAT II								
4	CONTINUOUSLY TRANSPOSED CONDUCTOR	CAT II								
5	PAPER INSULATED COPPER CONDUCTOR	CAT II								
6	INSULATING PAPER for PICC	CAT III								
7	MOULDED INSULATION COMPONENTS	CAT III								
8	PRE-COMPRESSED BOARDS & INSULATION COMPONENTS	CAT III								
9	OIL PUMP AND MOTOR SET	CAT II								
10	BUCHOLZ RELAY	CAT III								
11	ON LOAD TAP CHANGER	CAT III								
12	OFAF COOLER	CAT III								
13	RADIATORS	CAT II								
14	REGENERATIVE MAINTENANCE FREE BREATHER	CAT III								
15	CMS System	CAT I								
16	CMS PANEL	CAT II								
17	TRANSFORMER TESTING & MAINTENANCE EQUIPMENTS	CAT III								
NOTE	<b>L2 LIST OF BUS DUCTS</b>									
1	Air Pressurisation Equipment	CAT II								
2	Hot Air Blower	CAT II								
3	LAVT Cubicle / NG Cubicle/ Marshalling Box	CAT II								
4	CT for IPBD	CAT II								
5	Epoxy Seal off bushing / Insulators	CAT II								
NOTE	<b>L2 LIST OF SWITCH GEAR</b>									SOURCES FOR THESE ITEMS SHALL BE FINALIZED DURING DETAILED ENGINEERING AND MQP FINALIZATION
1	Numerical Relays	CAT I								SUB-QR CLEARED VENDORS ARE ACCEPTABLE FOR NUMERICAL RELAYS
2	Silver Plating	CAT III								
3	LV Air Circuit Breaker	CAT I								
4	LT CT/PT/CBCT/ Control Transformer	CAT II								
5	MV Vacuum Type Circuit Breaker	CAT I								
6	MV CT / PT & CBCT	CAT I								
7	MCBs	CAT III								
8	ENERGY METER	CAT III								
9	H.V. Fuse	CAT III								
10	Terminal Blocks (Control)	CAT III								
11	Surge Capacitors	CAT II								
<b>Note - 1 : Vendors to submit project specific documents as per Sub-QR requirements in case the Vendor is approved under collaboration agreement.</b>										
<b>Note - 2 : Vendors under 'A' are approved and accepted by NTPC with/without conditions in the past. Similar conditions as the case may be for the vendor shall be applicable for this project and tied up in the quality plan.</b>										
<b>Note - 3 : Main contractor approved sub vendors are acceptable those are evaluated / assessed as per Main contractor Quality Management System for vendor approval. Main contractor to inform the finally selected vendor to NTPC as soon as PO is placed for these items. In case of sub-QR Note-1 is also applicable.</b>										
<b>Note - 4 : BOI shall be reviewed and finalised during MQP approval for items/systems where ever applicable.</b>										
<b>Note - 5 : Category of inspection for LT Cables:</b>										
<b>For Total Contract Quantity per Size</b>						<b>Category Of Inspection</b>				
For cable total quantity ≤ 2.5 KM						Cat-III - submission of TC & Certificate of Conformance by Main Contractor for the manufacturers having successfully supplied to any NTPC project-site through Corporate contracts for atleast 2 years				

For cable total quantity above 2.5 km & up to ≤ 10 km per size/type	Cat-II for the manufacturers having successfully supplied to any NTPC project-site through Corporate contracts for atleast 2 years		
For cable total quantity 10 km and above per size/type	Cat-I		
<b>Note - 6: Category of Inspection for Cable Trays &amp; Cable Tray Flexible Support System:</b>			
<i>For Total Contract Quantity per Size</i>	<i>Category of Inspection</i>		
For cable total quantity ≤ 2.5 KM	Cat-III - submission of TC & Certificate of Conformance by Main Contractor for the manufacturers having successfully supplied to any NTPC project-site through		
For cable total quantity above 2.5 km & up to ≤ 10 km per size/type	Cat-II for the manufacturers having successfully supplied to any NTPC project-site through Corporate contracts for atleast 2 years		
For cable total quantity 10 km and above per size/type	Cat-I		
<b>Note - 7:</b>			
<p>i) <b>For Motors less than 50 KW: CAT-III.</b> Acceptance of Motor less than 50 KW is based on COC of the Manufacturer and the Main Contractor confirming as follows: "It is hereby confirmed that the above mentioned motor /motors was/ were manufactured taking care of NTPC specific requirements regarding ambient temp., voltage &amp; frequency variation, hot starts, pull out torque, starting KVA/KW, temp. rise, distance between centre of stud &amp; gland plate and tested in accordance with approved drawing / data sheets".</p> <p>ii) <b>For Motors 50 KW and less than 75 KW : CAT- II.</b> Acceptance of Motor is based on NTPC review of Routine Test inspection report as per IS: 12615 / applicable standards duly witnessed by main contractor along with COC of the Manufacturer and the Main Contractor confirming as follows: "It is hereby confirmed that the above mentioned motor /motors was/ were manufactured taking care of NTPC specific requirements regarding ambient temp., voltage &amp; frequency variation, hot starts, pull out torque, starting KVA/KW, temp. rise, distance between centre of stud &amp; gland plate, space heater and tested in accordance with approved drawing / data sheets".</p> <p>iii) <b>For Motors 75 KW &amp; above : CAT- I .</b> AS PER NTPC APPROVED QUALITY PLAN (To be submitted separately for NTPC review &amp; approval).</p>			
<b>Note - 8: NTPC approved Galvanizers:</b>			
1. M/s M J Engg. Delhi	7. M/s National Galvanizer, Kolkata	13. M/s Gurpreet Galvanizer, Hyderabad	19. Unitech Fabricators & Galvanizers- Hoogly
2. M/s A.V. Engg. Kolkata	8. M/s Unistar Galvanizer, Kolkata	14. M/s Sigma, Mumbai	
3. M/s Inar Profiles, Vishakapatnam	9. M/s B.P. Project, Kolkata	15. M/s Radhakrishnan Shetty, Chennai	
4. M/s Anand Udyog, Mumbai	10. M/s Bajaj Pune	16. Karamtara Mumbai	
5. M/s Techno Engg. Chandigarh	11. M/s Electrocare Industries, Mumbai	17. Poona Galvanizers Pune	
6. M/S Stedite Engg, Mumbai	12. M/s B.G. Shirke, Pune	18. Neha Galvanizer- Kolkata	
<b>Note - 9:</b> Relevant certificates shall be submitted for NTPC approval. Approval conditions attached to above identified vendors, as applicable shall be adhered to.			
<b>Note - 10 :</b> Indigenous sub-vendors for Annexure-I items are acceptable subject to meeting the MLC (Minimum Local Content) in line with latest MOP order.			
LEGENDS/संकेतिक			
SYSTEM SUPPLIER/SUB-SUPPLIER APPROVAL STATUS CATEGORY/प्रणाली आपूर्तिकर्ता/सब-वैडर की स्वीकृति की स्थिति की श्रेणी (SHALL BE FILLED BY NTPC एनटीपीसी द्वारा भरा जाएगा)			
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1	AAQMS System										
		I				ACOEM Ecotech Industries Pvt Ltd	Pithampur	A			1. So2 ,Nox,CO,CO2 ,Ozone ,PM-10,PM-2.5 & multipoint calibrator will be from Ecotech Australia 2.Metrological sensor from Dynalab 3. Mercury analyser from LOA agreed sources 4.PI refer Note-07
		I				Horiba India Pvt Ltd	Pune	A			1. So2 ,Nox,CO,CO2 ,Ozone & multipoint calibrator will be from Horiba Japan 2.PM-10,PM-2.5 ,TSP will be from Met One USA & metrological sensor from Spectrum USA 3. Mercury analyser from LOA agreed sources
		I				Enviroment SA India Pvt. Ltd.	Mumbai	A			1.Analysers SO2,Nox,CO2 & SPM from Environment SA France, 2-Multipoint Calibrator From enviroenment SA France 3-Metrological Sensor with interface unit from M/s LSI Lastem SRL, Italy
		I				Thermo Fisher Scientific India Pvt. Ltd	Mumbai	A			1) Analysers (Sox,Nox,CO,SPM,RSPM ,Ozone ) ,multi gas calibrator shall be sourced from their principle Thermo Environmental ,USA (Division of M/S Thermo fisher Scientific ,USA)  2 )Metrological sensors shall be sourced from M/S Metone Instruments USA
		I				Chemtrol Engineering Ltd	Goa	A			1. Analysers from M/S Teledyne USA except Mercury analyser . 2.Metrological sensors & SPM analysers from Met one Instruments Inc USA 3.PI refer note-07
2	Acoustic pyrometer System										
		I				Lucent Marcons Pvt Ltd (As a system Integrator of M/S Scientific Environmental Instruments, Inc. ( SEI) USA )	Noida	A			1.Boiler watch processor control unit, acoustic sensor ( Pizeo/Microphone with prefab cable ) , Preamplifier , mapping software & analog output cards shall be from M/S SEI USA . 2. Enclousure ,OWS ,Waveguide ,Transition cone with flange , venturi , Tube box etc shall be from M/S SEI USA approved sources to be tiedup in MQP. 3. PI refer Note-07




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		I				Hi-Tech Systems & Services Ltd (As a system Integrator of M/S Bonenberg + Drescher GmbH, Germany)	Kolkata	A			1.All critical components are to be procured from M/S Bonenberg + Drescher GmbH, Germany  2.Standard indigenous components like Solenoid valve (Asco make) ,matching flange ,printer & monitor table shall be supplied by M/S Hi- Tech
		II				Scientific Environment Instrument Inc (SEI)	USA	A			1.PCU ,Acoustic sensor ,Preamplifier mapping software shall be from SEI USA . 2. Enclosure ,OWS ,Waveguide ,Tube box etc shall be from SEI approved sources to be tiedup in MQP. 3.Pl refer Note-07
		II				Bonnenberg + Drescher GmbH,	Germany	A			
		II				STOCK Equipment Co	USA	A			
3	Addressable Detector (Multisensor , Photo & Heat Detectors Type), Interface units & Manual call points										
		II				Honeywell Life Safety-HIPL	Gurugram	A			Notifier Brand ( Detector, Interface Module only)
		II				Schrack	Austria	A			
		II				Autronica	Norway	A			
		II				Edwards	Mexico	A			
		II				Notifier	USA	A			
		II				Sheld Fire safety	UK	A			
		II				Jhonson Controls	USA	A			Simplex Brand
4	Battery for 24VDC charger & UPS										
		Note-4				Hoppecke Batterien GmbH & Co Kg	Germany	A			For Lead Acid- Plante
		Note-4				Exide	Kolkata	A			For Lead Acid- Plante
		Note-4				SAFT India Ltd	Bengaluru	A			For Ni-Cd
		Note-4				HBL Power	Hyderabad	A			For Ni-Cd ,Upto 990AH (H type)
		Note-4				SAFT	France/Sweedden	A			For Ni-Cd
		Note-4				Hoppecke Batterien GmbH & Co Kg	Germany	A			For Ni-Cd
5	Blank Panels / Cabinets										
		III				Pyrotech Electronics Pvt. Ltd	Udaipur	A			
		III				Rittal India Private Ltd	Bengaluru	A			
		III				Hoffman	Bengaluru	A			
		III				BHEL	Bengaluru	A			
		III				BCH ELECTRIC LIMITED	Faridabad	A			
6	Boiler tube leak detection system (ASLD)										
		III				HI Tech System & services Ltd ( System Integrator of Acoustic Monitoring International Inc. USA)	Kolkata	A			1.M/S Acoustic Monitoring International Inc. USA Make system Conditional as per approval letter 01/CQA/9573-102/Hi-tech-AMI dated 11.04.2013 2.Pl refer Note-07
		III				Raman Instruments (System Integrator of M/S Procon UK )	Delhi	A			1.M/S Procon UK Make system 2.Pl refer Note-07
		III				BHEL Ltd	Trichurapalli	A			
		III				Instrotech (PTY) Ltd	South Africa	A			

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		III				Rectuson Co. Ltd	S.Korea	A			
		III				Procon Engineering	UK	A			
		III				Acoustic Monitoring International Inc. (AMI)	USA	A			
7	CCTV System (IP Based )										
		III				Axis	Sweden	A			1-CCTV components will be of Axis communication AB,Sweden make & Video Management Software will be of Milestone Brand. 2.Other BOI items shall be from LOA approved sources & will be tied up during the finalization MQP.
		III				Bosch	Bengaluru	A			1.CCTV components will be of M/S Bosch make, and supplied through M/s Bosch, Bengaluru. 2.Other BOI items shall be from LOA approved sources & will be tied up during the finalization MQP.
		III				Pelco	USA	A			1.CCTV components will be of M/S Pelco, USA make 2.Other BOI items shall be from LOA approved sources & will be tied up during the finalization MQP.
7A	CCTV System (IP Based ) /System Integrators										
		I				Jonson Control India Pvt Ltd	Mumbai	A			M/S Pelco Make CCTV system
		I				Toshniwal Industrial Pvt Ltd	Ajmer	A			M/S Axis Make CCTV system
		I				L&T TECHNOLOGY SERVICES	Bengaluru	A			M/S Bosch Make CCTV system
		I				Score Information Technologies Limited	Kolkata	A			M/S Bosch Make CCTV system
8	Control Desk										
		I				Pyrotech Workspace Solutions Pvt Ltd	Udaipur	A			BOI items like Mosaic tiles /Console items shall be as per LOA approved sources
		I				Cosmos Media Products Pvt Ltd	Greater Noida	A			1.BOI items like Mosaic tiles /Console items shall be as per LOA approved sources 2. H block should be from knurr Germany .Solid acrylic surface should be procured from Du Pont/NTPC approved sources 3.Extruded Al profile structure should be procured from Hindalco (With Knurr design)
		I				Adarsha Control system Pvt Ltd	Bengaluru	A			1.BOI items like Mosaic tiles /Console items shall be as per LOA approved sources 2. Acrylic solid surface (ASS) should be procured from Du Pont /NTPC approved sources 3.wood works are to be done by M/S C K Furn Bengaluru
9	Control Valves										
9-A	Control Valves for Aux PRDS system including desuperheater										




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		I				Instrumentation Limited	Palakkad (Kerala)	A			Up to A182F92 material with conditions as per approval letter
		I				Koso India Pvt limited	Nasik	A			Up to A182F92 material with conditions as per approval letter
		I				Bomafa Special Valve solutions Pvt ltd	Ahmedabad	A			Up to A182F92 material with conditions as per approval letter
		I				KSB MIL Controls Ltd	Thrissur (Kerala)	A			As per approval Ref: 02/CQA/SG/Tanda/MIL Dated 30.09.2015
		I				Control Component India PVT Ltd	Sricity (Andhra Pradesh)	A			1.MQP shall be vetted by M/S CCI -USA 2.Sources of major components like casting /forging and actuators shall be tied up during finalization of MQP
		II				Parcol SPA	Italy	A			
		II				Daume	Germany	A			
		II				HOLTER	Germany	A			
9-B	Control Valve for Start Up System										
		I				Control Component India PVT Ltd	Sricity (Andhra Pradesh)	A			1.The critical components of control valve i.e. Disk Stack ( Drag technology) shall be sourced from CCI, USA/CCI S. Korea . 2.The positioner from NTPC approved sources & pneumatic actuators are sourced from CCI S.Korea 3.Control valve to be manufactured as per CCI USA design & drawing.
		I				KOSO India Pvt Ltd	Nasik	A			
		I				Emerson Process Management Ltd	Chennai	A			
		II				Dresser Produits industriels Industriels S.A.S	France	A			
		II				SEMPELL AG	Germany	A			Up To size 20 Inches & 2500 ANSI Class
		II				Nihon Koso Co Ltd	Japan	A			
		II				HORA	Germany	A			
		II				CCI	S.Korea	A			
		II				Emerson (Fisher)	USA/France/Japan	A			
9-C	Control Valve for BFP Recirculation.										
		I				Control Component India PVT Ltd	Sricity (Andhra Pradesh)	A			1.The critical components of control valve i.e. Disk Stack ( Drag technology) shall be sourced from CCI, USA/CCI S. Korea . 2.The positioner from NTPC approved sources & pneumatic actuators are sourced from CCI S.Korea 3.Control valve to be manufactured as per CCI USA design & drawing.
		I				KOSO India Pvt Ltd	Nasik	A			
		I				KSB MIL Controls Ltd	Thrissur (Kerala)	A			Up to 10 Inches & 3400 ANSI class
		II				Dresser Produits industriels Industriels S.A.S	France	A			
		II				Nihon Koso Co Ltd	Japan	A			
		II				CCI	USA	A			

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		II				Emerson (Fisher)	USA/France/Japan	A			
9-D	Control valve for feedwater flow Control										
		I				Control Component India PVT Ltd	Sricity (Andhra Pradesh)	A			1.The critical components of control valve i.e. Disk Stack ( Drag technology) shall be sourced from CCI, USA/CCI S. Korea . 2.The positioner from NTPC approved sources & pneumatic actuators are sourced from CCI S.Korea 3.Control valve to be manufactured as per CCI USA design & drawing.
		I				KOSO India Pvt Ltd	Nasik	A			
		I				Emerson Process Management Ltd	Chennai	A			Control valve body assembly will be from Nippon Fisher ,Japan with IBR form III C certificates .
		I				KSB MIL Controls Ltd	Thrissur (Kerala)	A			1.Provision of straight type of brackets for linkage mechanism .2.Factory fitted strainer /diffuser type seat ring . 3.AFR with T connector for pneumatic connection to volume booster
		II				Dresser Produits industriels Industriels S.A.S	France	A			
		II				Nihon Koso Co Ltd	Japan	A			CONDITIONAL
		II				CCI	USA / Austria / S.Korea / Switzerland	A			
		II				Emerson (Fisher)	USA/France/Japan	A			
9-E	Control valves for Soot blower pressure reducing ,SH/ RH Attemperation.										
		I				Control Component India PVT Ltd	Sricity (Andhra Pradesh)	A			1.The critical components of control valve i.e. Disk Stack ( Drag technology) shall be sourced from CCI, USA/CCI S. Korea . 2.The positioner from NTPC approved sources & pneumatic actuators are sourced from CCI S.Korea 3.Control valve to be manufactured as per CCI USA design & drawing.
		I				KOSO India Pvt Ltd	Nasik	A			
		I				Emerson Process Management Ltd	Chennai	A			
		I				KSB MIL Controls Ltd	Thrissur (Kerala)	A			
		I				GE Oil & Gas India Pvt Limited	Coimbatore	A			up to 2500 ANSI Class
		I				Flow Serve India Controls Pvt Ltd	Bengaluru	A			
		I				Instrumentation Limited	Palakkad (Kerala)	A			only for SH / RH
		II				Nihon Koso Co Ltd	Japan	A			
		II				Dressor Masoncilan	USA	A			only for SH / RH/ up to 2500 class
		II				Dresser Produits industriels Industriels S.A.S	France	A			
		II				SPX Flow Technology	USA	A			only for SH / RH
		II				Leslie Controls Inc	USA	A			only for SH / RH
		II				Sempell AG (Tyco group)	Germany	A			only for SH / RH





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		II				CCI	USA/Sweden /S.Korea	A			
		II				Emerson (Fisher)	USA/France /Japan	A			
9-F	Control valve(Other application)										
		I				Mascot Valves Pvt Ltd	Ahmedabad	A			Up to size 12 inches & 900 ANSI class
		I				Control Component India PVT Ltd	Sricity (Andhra Pradesh)	A			Up to 2500 ANSI class
		I				KOSO India Pvt Ltd	Nasik	A			
		I				KSB MIL Controls Ltd	Thrissur (Kerala)	A			Up to 2500 ANSI class
		I				Emerson Process Management Ltd	Chennai	A			Up to 2500 ANSI class
		I				GE Oil & Gas India Pvt Ltd	Coimbatore	A			Up to size 10 inches & 900 ANSI class /Up to size 24 inches & 600 ANSI class
		I				Flow Serve India Controls Pvt Ltd	Bengaluru	A			Up to size 14 inches & 600 ANSI class
		I				Forbes Marshal Arca Pvt. Ltd.	Pune	A			Up to size 16 inches & 900 ANSI class
		I				Instrumentation Limited	Palakkad (Kerala)	A			Up to 2500 ANSI class
		I				Severn Glocon India Pvt Ltd	Chennai	A			Up to size 14 inches & 300 ANSI class
		II				CCI	USA/Sweden /S.Korea	A			
		II				Nihon Koso Co Ltd	Japan	A			
		II				Emerson (Fisher)	USA/France /Japan	A			
		II				Leslie Controls Inc	USA	A			
		II				PARCOL S.P.A	Italy	A			
		II				Dresser Produits industriels Industriels S.A.S	France	A			
		II				HORA	Germany	A			
		II				Wellend & Tuxhorn	Germany	A			
		II				SPX Flow Technology	USA	A			
		II				Sempell AG (Tyco group)	Germany	A			
9-G	Control Valve (Ceramic lined )										
		I				Samson Controls Pvt Ltd	Pune	A			1. For M/S Samson Cera Germany make valve Up to 10 inches size & 150 ANSI class 2. BOI shall be tied up at the time of finalisation of MQP
10	DDCMIS										
		I				ABB	Germany	A			
		I				SIEMENS AG	Germany	A			
		I				Emerson Process Management Asia Pacific Pvt Ltd	Singapore	A			
		I				Hitachi nest control system Pvt Ltd	Bengaluru	A			
		I				Honeywell Automation India Ltd	Pune	A			
		I				GE	France	A			
		I				SIEMENS	Gurugram	A			
		I				BHEL	Bengaluru	A			For MAX DNA System
		I				Yokogawa	Bengaluru	A			
		I				GE Power India Ltd	Noida	A			
		I				Toshiba	Japan	A			
		I				ABB	Bengaluru	A			
		I				Emerson Process Management Ltd	Pawane	A			

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11	Dust Emission Monitor										
		III				Durag India Instrumentation Pvt Ltd	Bengaluru	A			1. For Durag Germany Make Extractive Type Dust density analyser 2. Other components shall be as per approval letter CQA/NTPC BARH STPP-I / D-263 / Durag India Instrumentation Pvt Ltd Bengaluru Dated 28.08.2019
		III				Sick India Pvt Ltd	Mumbai	A			1.For SICK AG Make Extractive Type Dust density analyser 2. Other components shall be as per approval letter CQA/NTPC BARH-I /S-907/M/S SICK India Pvt Ltd dated 28.08.2019
		III				Environment SA India Pvt Ltd	Navi Mumbai	A			1.For ENEVA UK Make Extractive Type Dust density analyser 2. Other components shall be as per approval letter No.: CQA/NTPC BARH-I / E-335 / M/S Environment SA India Pvt Ltd Dated 16.09.2019
		III				Land Instruments International	UK	A			For In Situ type /Optical Transreceiver type
		III				Codel	UK	A			For In Situ type /Optical Transreceiver type
		III				Durag Industrie Elektronik GmbH & Co KG	Germany	A			For In Situ type /Optical Transreceiver type & Extractive Type
		III				Emerson Process Management	Ireland	A			For In Situ type /Optical Transreceiver type
		III				SICK AG	Germany	A			For In Situ type /Optical Transreceiver type & Extractive Type
		III				ENEVA	UK	A			For Extractive Type Dust density analyser
12	Electrical Actuators										
12-A	Electrical Actuator (With gear box if applicable )										
		II				Antrieb Technik Pvt Ltd	Chennai	A			For low torque applications only
		II				Auma	Bengaluru	A			
		II				Limitorque	Faridabad	A			Model no LI20,SMB,LY series, Gear Box T, HBC Series
		II				Rotork	Bengaluru	A			For low torque app (Up to 1000 Nm )
		II				Rotork Controls (India) Private Ltd	Chennai	A			For low torque app (Up to 1000 Nm ) & High torque 4000 to 7000 Nm With integral starter for non critical applications
		III				Auma	Germany	A			
		III				Limitorque	USA	A			
		III				Rotork	UK	A			For low torque app (Up to 1000 Nm)
		III				Nippon gear	Japan	A			
		III				Drehmo GMBH	Germany	A			C Matic Series (DMC/DMCR)
12-B	Electrical Actuator- Non-Intrusive (With gear box if applicable )										
		I				Auma India Pvt Ltd	Bengaluru	A			Also acceptable for Field Bus based applicable
		I				Rotork Control	Chennai	A			Upto 630Nm
		III				Flowsolve	USA	A			Also acceptable for Field Bus based applicable
		III				Bernard Controls	France	A			

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12-C	Electrical actuator for ID/FD/PA Blade pitch ,IGV &SCOOP										
		III				Harold Beck & Sons Inc	USA	A			
		III				SIPOS Aktorik GmbH	Germany	A			
13	Electronics Transmitter (Pressure , DP and DP based Flow/Level )										
13-A	Electronics Transmitter (Pressure , DP and DP based Flow/Level )										
		III				ABB Ltd	Bengaluru	A			2600T & critical item from ABB Italy/ Their approved source;
		III				Emerson Process Management Ltd	Pawane	A			
		III				Siemens Ltd	Thane	A			Model:-SITRANS P
		III				Honeywell Automation India Ltd	Pune	A			
		III				Baldota Control and Equipment Pvt Ltd	Navi Mumbai	A			PT & DPT of LD 301 Series (SMAR)
		III				Yokogawa India Limited	Bengaluru	A			EJA-E 110,430,530 SERIES & all raw material and BOI under knocked down condotion ( sensor assembly as a single unit) shall be sourced from M/S Yokogawa Japan
		III				M/s Endress + Hauser India Automation Instrument Pvt Ltd	Aurangabad	A			
		III				Emerson (Rosemount)	USA	A			
		III				Yokogawa	Japan	A			
		III				ABB	Germany / Italy	A			2600T & critical item from ABB Italy/ Their approved source;
		III				Siemens	France	A			Sitrans P DSIII Series
		III				Fuji Electric	France	A			FCX -AIII SERIES
		III				Fuji	Japan	A			
13-B	Electronics Transmitter -Field Bus Based (Pressure , DP and DP based Flow/Level )										
		I				ABB India Ltd	Bengaluru	A			One no of Transmitter will be sent at DDCMIS supplier for function testing of field bus communication with DDCMIS during FAT
		I				Yokogawa India Limited	Bengaluru	A			EJA-E 110,430,530 SERIES & all raw material and BOI under knocked down condotion ( sensor assembly as a single unit) shall be sourced from M/S Yokogawa Japan
14	EQMS										





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		I				SWAN	Hyderabad	A			1. Conductivity analyser, pH analyser and Temperature Transmitter will be of M/s ABB, UK make . 2. TSS analyser will be of M/s Daeyoon, South Korea make . 3. Oil in water analyser will be of M/s TriOs, Germany make. 4. Online BOD/COD analyser will be of M/s Shimadzu, Japan make . 5. Flow meter will be of M/s Khrono Marshall, Maharashtra make. 6. Data Aquisition System will be procured from Knowledge Lens, Karnataka.
15	Fiber optic cable	Note-3				U M Cables Ltd	Silvassa (Daman)	A			
		Note-3				KEC International Ltd	Mysore	A			
		Note-3				Apar Industries Limited	Valsad (Gujrat)	A			
		Note-3				HFCL	Goa	A			
		Note-3				Aksh Fibre	Bhiwadi (Raj)	A			
		Note-3				Finolex Cable Ltd	Goa	A			
		Note-3				Birla Cable Limited	Rewa	A			
		Note-3				R&M	Switzerland	A			
		Note-3				Molex	UK	A			
		Note-3				Corning	USA	A			
16	Fire alarm Panel	II				Toshniwal Industrial Pvt Ltd	Ajmer	A			1.M/S Notifier Make Fire alarm Panel 2.PI Refer Note-07
		II				Bosch Security system	Bengaluru	A			1.Detector , Hooter, MCP, Modules, Panel shall be M/s Bosch Make
		II				Notifier	USA	A			
		II				Autronica	Norway	A			
		II				Schrack	Austria	A			
		II				Edwards	Mexico	A			
		II				Shield Fire safety and security Ltd	UK	A			
		II				Jhonson Controls	Mexico	A			Simplex Brand
17	Flame Monitoring System (Scanner)	I				Lucent Marcons Pvt Ltd ( System Integrator of M/S Forney Corporation USA )	Noida	A			1.Flame detector, amplifier ,light guide fiber optic , smart display programming unit , test kit & simulator will be supplied from M/S Forney Corporation USA 2.Other components like outer carrier ,IDD cable with connector , expander , Y connector with adapter gasket , fastners & signal isolators will be supplied from M/S Forney Corporation USA approved sources . 3.PI Refer Note-7
		I				HI Tech System & services Ltd ( System Integrator of BFI Germany )	Kolkata	A			1.For BFI Germany make system 2. PI Refer Note-7

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		II				Durag India Instrumentation Pvt Ltd	Bengaluru	A			For Durag Germany make system
		II				Forney Corporation	USA	A			
		II				BFI	Germany	A			
		II				Durag GmbH	Germany	A			
		II				Emerson (COEN)	USA	A			
		II				BHEL	Trichurapalli	A			
18	Flow nozzle assembly										
		I				Microprecision Product Pvt Ltd	Palwal	A			Up to Alloy steel material grade P-92 & other conditions as per approval letter
		I				Mineo India Flow Elements Pvt. Ltd.	Goa	A			Up to size 26 Inches for Alloy steel/ Stainless steel pipe SA335 P-11, P -22 and SA 335 P-91 & other conditions as per approval letter
		I				Instrumentation Limited	Palakkad (Kerala)	A			Up to alloy steel grade P-92 subject to qualified WPS & other conditions as per approval letter
		I				Starmech controls (India) Pvt Ltd	Pune	A			Up to alloy steel grade P-92 subject to qualified WPS & other conditions as per approval letter
		II				SEIKO	Czech Republic	A			
		II				WISE Control	S.Korea	A			
		II				Technomatic	Italy	A			
19	Flue Gas Analyser (CO)										
		III				Forbes Marshall Pvt Ltd	Pune	A			For In situ type CO analyser
		III				ICE (Asia) Pvt Ltd	Mumbai	A			For In situ type CO analyser 1. CO analyser from Protea UK 2. Other components like, Mounting Flanges, tubing, fittings ,junction boxes, air purging system , calibration cylinders & cables will be supplied by ICE (Asia) Pvt Ltd 3.Pl refer Note-7
		III				Sick India Pvt Ltd	Mumbai	A			For In Situ Type / CO analyser from SICK AG & Other components like ,Protection tube ,Flanges ,tubing ,fittings ,junction boxes, solenoid valves & calibration cylinders will be supplied by M/S Sick India Pvt Ltd .
		III				Emerson Process Management Ltd	Pawane	A			For M/S Emerson Germany/ USA make Analyser
		III				Codel	UK	A			
		III				Land Instruments International	UK	A			
		III				Sick AG	Germany	A			For In Situ Type
		III				Envoirement SA	France	A			For Hot Extractive
		III				Fuji Electric	Japan	A			
		III				Servo max Group	UK	A			
		III				Siemens	Germany	A			
20	Flue Gas Analyser (CO2,SO2 and Nox)										
		III				Sick India Pvt Ltd	Mumbai	A			For In Situ Type SO2 analyser 1. Analyser will be from Sick AG Germany 2. Other components like ,Whether proof covers ,flanges ,purge air unit ,junction boxes ,cables ,PC ,remote display ,gas cylinders shall be supplied by M/s Sick India Pvt Ltd

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		III				Emerson Process Management Ltd	Pawane	A			For M/s Emerson Germany/ USA make Hot Extractive SO2, NOx Analyser
		III				Envoirement SA	France	A			For Hot Extractive
		III				Fuji Electric	Japan	A			Hot Extractive Type For SO2 & Nox
		III				Siemens	Germany	A			Hot Extractive Type For SO2 & Nox
		III				Yokogawa Electric Corporation	Japan	A			IR-400 Series (Hot Extractive Type For CO2, SO2 & NOx)
		III				Servo max Group	UK	A			Hot Extractive Type For SO2 & Nox
		III				Sick AG	Germany	A			Hot Extractive Type For CO2, SO2 & NOx and In situ type for SO2 analyser
21	Flue Gas Analyser O2 Analyser (HT)										
		III				SECO	Chennai	A			
		III				Marathon Monitor	USA	A			
		III				Servo max Group	UK	A			
22	Flue Gas Analyser {O2 Analyser (LT)}										
		III				Sick India Pvt Ltd	Mumbai	A			For In Situ Type 1. Analyser will be from Sick AG Germany 2. Other components like ,Whether proof covers ,flanges ,purge air unit ,junction boxes ,cables ,PC ,remote display ,gas cylinders shall be supplied by M/s Sick India Pvt Ltd
		III				Analysers Instruments Co Pvt Ltd	Kota	A			For In Situ Type 1.Main parts like Sample probe & Analyser will be supplied by M/s Enotec Germany. 2. Other components like auto calibration unit ,probe protector ,enclosure panel & calibration kit will be supplied & integrated M/s AIC kota. 3.PI refer Note-07
		III				Emerson Process Management Ltd	Pawane	A			For In Situ Type For M/s Emerson USA make Analyser
		III				ABB	Bengaluru	A			For In Situ Type For M/s ABB UK make Analyser
		III				Yokogawa India	Bengaluru	A			For In Situ Type For M/s Yokogawa Japan make Analyser
		III				Enotech GmbH	Germany	A			For In Situ Type
		III				Ametek	USA	A			For In Situ Type
		III				Yokogawa Electric Corporation	Japan	A			For In Situ Type
		III				Servo max Group	UK	A			For In Situ Type
		III				Sick AG	Germany	A			For In Situ Type
23	Continous Emission Monitoring system										
		I				Horiba India Pvt Ltd	Pune	A			Approval conditions as per approval letter no - CQA/NTPC Mauda-II / H-321 / M/S Horiba India Pvt Ltd Dated 03.10.2019
		I				Yokogawa India Ltd	Bengaluru	A			1. SO2,NOx & CO2 Analyser will be from M/S Yokogawa Electric Corporation Japan . 2.Other Conditional as per approval letter no Ref. No.:-CQA/BARH-I / Y-023/ M/s Yokogawa India Ltd dated 21.05.2020




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		I				Adage Automation Pvt Ltd.	Goa	A			For M/s Siemens Germany make SO2,NOx & CO2 Analysers
		I				Thermo Fisher Scientific India Pvt. Ltd	Pune	A			Approved only for Dilution Extractive Technique 1)Analyser (SO2,NOx,CO,CO2,Mercury ), sampling probe ,sample handling system ,umbical cord etc to be supplied from M/S Thermo Fisher USA . 2) Other BOI shall be as per LOA approved sources
		I				Emerson Process Management India Pvt Ltd	Pawane	A			For M/s Emerson Germany make SO2,NOx & CO2 Analysers other conditions as per approval letter.
		I				Analyser Instruments Co Pvt Ltd	Kota	A			Analysers from Fuji Japan & other BOI shall be as per LOA approved sources .
		I				Envoirement SA India Pvt Ltd	Navi Mumbai	A			Hot Extractive Type / 1. Multipoint gas Analyzers MIR-9000 for SO2, NOx,CO2 & CO .Probe ,Nafyon drier & heater for drier will be of M/S Environment SA France make. 2. Other components shall be as per the approval letter ref no CQA/NTPC Telangana/E-335/M/SEnvoirement SA India dated 12.02.2019
24	Furnace Flame viewing system (High Temperature CCTV Components)										
		III				Sertel Electronics Pvt. Ltd.	Chennai	A			Approved for Visible type only
		III				Hi Tech System and Service ( System Integrator of M/S Lenox USA )	Kolkata	A			1.M/S Lenox USA Make System 2.PI refer Note-07
		III				Durag India Instrumentation Pvt Ltd	Bengaluru	A			1.Complete Camera Assembly, IRIS Control etc. from Durag Germany 2.Other Component like chiller, vedio monitor, OFC ,Panel from M/S Durag Approved sources
		III				TLT Engg Pvt. Ltd. ( System Integrator of M/S Diamond Power USA/ Sweden make system )	Kolkata	A			1.M/S Diamond Power USA/ Sweden make system 2.PI refre Note-07
		III				Toshniwal Industries ( System Integrator of M/S Mirion UK make system )	Ajmer	A			1. M/S Mirion UK make system 2.PI refer Note-07
		III				Diamond Power	USA / Sweden	A			
		III				Durag GmbH	Germany	A			D-VTA-201
		III				Lenox	USA	A			
		III				Mirion	UK	A			
		III				Piper GmbH	Germany	A			
		III				Sabota GmbH	Germany	A			
25	H2 Gas Analyser										
		I				ABB India Ltd	Bengaluru	A			M/s ABB Germany /UK Make analyser
		I				Adage Automation Pvt. ltd	Goa	A			1.M/s Siemens, Garmany (Calomat 6) Make analyser 2. PI refer Note-07

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		I				Yokogawa India Ltd	Bengaluru	A			M/s Yokogawa Japan ( Gas Densitybased ) Make analyser
		I				SIEMENS	Gurugram	A			M/s Siemens, Germany (Calomat 6) Make analyser
		III				GE Sensing EMEA	Ireland	A			Conductivity based
		III				ABB	UK	A			
		III				Emerson (Rosemount)	USA	A			
		III				Environment One Corporation	USA	A			Conductivity based
26	HEA ignitor										
		I				Durag India Instrumentation Pvt Ltd	Bengaluru	A			M/S Durag Germany make HEA Ignitor
		I				Hindustan Thermometers	Ambala	A			Conditional as per approval ref no 01/CQA/0270-102 dated 17.09.2012.Spark tip of their own make is also acceptable
		I				Fives combustion System Pvt Ltd	Vadodara	A			
		I				Boiler control Pvt Ltd	Puddukottai (Tamilnadu)	A			Approved for Aux Boiler package only
		III				Unison Industries	USA	A			
		III				Durag GmbH	Germany	A			
		III				Ignition system INC	USA	A			
		III				Tesi SPA	Italy	A			
27	High Temp. cable (PTFE/FEP)										
		II				Thermocables	Hyderabad	A			
		II				Temspens	Udaipur	A			
		II				Habia cables	Sweden	A			
		II				Thermo Electrica BV	Netherland	A			
		II				Lapp cables	Germany	A			
		II				Kerpen cables	Germany	A			
		II				TEW & C	USA	A			
28	Impulse Pipes/Tubes										
		II				Maharashtra Seamless	Raigarh	A			For CS Pipes only
		II				Ratnamani Metals and Tubes	Gandhinagar	A			For SS only.
		II				Heavy Metals and Tubes	Gandhinagar	A			For SS & CS only.
		II				ISMT	Ahamadnagar	A			For CS/ AS upto Gr 22 Pipes only
		II				Nippon Steel & Sumitomo Metals corporation	Japan	A			
		II				TPS Tecnitube	Germany	A			
		II				Veluric & Manessmann	Germany	A			
		II				Trouvay and Cauvin	France	A			
		II				Sandvik	Sweden	A			For SS only
		II				REMI Edlestahl Tubulars Ltd	Palghar	A			
29	Instrument Cables ( F,G & T/C Cables )										
		Note-2				Goyolene Fibers ( India) Pvt Ltd	Silvassa	A			F&G Type Cable
		Note-2				Temspens Instruments Ind Pvt Ltd	Udaipur	A			
		Note-2				Havells India	Alwar	A			F Type Cable
		Note-2				Paramount Communication Ltd	Khuskhera	A			
		Note-2				Polycab	Daman	A			
		Note-2				Delton	Faridabad	A			
		Note-2				KEI	Bhiwadi (Raj)	A			
		Note-2				Elkey Telelinks	Faridabad	A			
		Note-2				CORDS	Kaharani	A			
		Note-2				CORDS	Bhiwadi	A			
		Note-2				Nicco	Kolkata	A			





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		Note-2				Universal Cable	Satna	A			
		Note-2				Thermocables	Hyderabad /Mahboobnagar	A			
		Note-2				Gupta Power Infrastructure Ltd.	Khurdha	A			
		Note-2				CMI	Faridabad	A			
		Note-2				Advance Cables Pvt Ltd	Bengaluru	A			F&G Type Cable
		Note-2				Gemscab Industries Ltd	Bhiwadi (Raj)	A			F&G Type Cable
		Note-2				Apar Industries Limited	Valsad	A			F&G Type Cable
		Note-2				Suyog Electricals Ltd	Halol (Gujrat)	A			
		Note-2				Special Cables Pvt Ltd	Rudrapur	A			
		Note-2				T C Communication	Ghaziabad	A			
		Note-2				TEW & C	USA	A			
		Note-2				Habia cables	Sweden	A			
		Note-2				Kerpen cables	Germany	A			
		Note-2				Lapp cables	Germany	A			
		Note-2				Thermo elecrtca Bv	Netherland	A			
30	Intelligent Battery charger 24V DC / DCDB/BHMS										
		II				Chabbi Electricals	Jalgaon	A			Rectifier module, Controller module and Battery Health monitoring system shall be of M/s Vertiv make
		II				Eltek SGS Pvt Ltd	Gurugram	A			
		II				Vertiv Energy Pvt ltd	Pune	A			
31	Large Video Screen (LED Based)										
		I				Pyrotech Electronics Pvt Ltd	Udaipur	A			
		I				Delta India Electronics Pvt Ltd	Gurugram	A			
		I				Barco Electronics system (P) Ltd	Noida	A			
		I				Planner System Inc	USA	A			
32	Level switch- Conductivity type										
		II				Raman Instruments ( System integrator of Delta Morbey/ Emerson Mobrey /Solartron -Mobrey)	Delhi	A			1.M/S Emerson (Morbey) UK system 2.PI refer Note-07
		II				Hi Tech System & services Ltd ( System Integrator of Levelstate systems Ltd ,UK )	Kolkata	A			1. M/S Levelstate UK System .Vessel from M/s Hi Tech 2.PI refer Note-07
		II				BHEL	Trichurapalli	A			
		III				Emerson -Mobrey (Solartron mobrey)	UK	A			
		III				Levelstate Systems Ltd	UK	A			
		III				Yarway	USA	A			
33	Local Instrument Enclosure/Rack										
		I				Pyrotech Electronics Pvt. Ltd	Udaipur	A			BOI from LOA approved sources
		I				Sajas electrical	Trichurapalli (Tamilnadu)	A			BOI from LOA approved sources
		I				Prammen	Pudukottai (Tamilnadu)	A			BOI from LOA approved sources
		I				Chemin C&I Pvt Limited	Puducherry	A			1- BOI from LOA approved sources 2.Fabrication at M/s LUFT tech India 3- Painting at M/s Supream Coater & Fabricator
34	Master Slave Clock System										
		I				Signals and Systems Pvt. Ltd. (SANDS )	Chennai	A			


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				I				Masibus	Gandhinagar	A			
				I				Sertel Electronics Pvt. Ltd.	Chennai	A			
				II				Hopf Elektronik GmbH	Germany	A			
				II				Hathway	USA	A			
				II				Mein Berg	Germany	A			
				II				Moser Baer AG	Switzerland	A			
35	Mercury Analyser												
				I				Analyser Instrument Co. Pvt Ltd (AIC)	Kota	A			1. Mercury Analyzer from PS Analytical UK 2.System integration & supply of components like, Enclosure with AC, calibration cylinders, PC will be done by M/s Analyser Instrument Co. Pvt Ltd (AIC) Kota . 3.PI refer Note-07
				III				Environment SA India Pvt Ltd	Navi Mumbai	A			1-Mercury analyzer with accessories will be from Mercury instruments GmbH Germany . 2- Other components like, sample line between probe to mercury analyzer will be supplied by M/s Environment SA India Pvt Ltd .
				III				Thermo Fisher Scientific India Pvt Ltd	Pune	A			1. Mercury Analyser shall be from Thermofisher USA 2. Other approval conditions are as per approved letter ref no 01/CQA/9578-001/Thermofisher dated 09/12/2016
				III				Durag India Instrumentation Pvt Ltd	Bengaluru	A			Analyser from M/s Verewa Umwelt Germany
				III				Mercury Instruments GmbH	Germany	A			
				III				SICK AG	Germany	A			
				III				Themofisher	USA	A			
				III				Lumax	Russia	A			For AAQMS System
36	PA System (IP Based)												
				III				BNA Technology Consulting Ltd.	Bengaluru	A			BOI shall be from LOA approved sources.
				III				Armtel	Russia	A			
				III				Zenitel	Norway	A			1.PA system active component , Proprietary item will be Zenitel Norway make 2.Other components & BOI shall be from LOA approved sources
				III				Commend International GMBH	Austria	A			
36A	PA System (IP Based)/System Integrators												note-7
				III				Willstrong Solutions Pvt. Ltd	Greater Noida	A			For M/s Armtel Russia system Approval conditions as per approval letter no Patratu-QA/9585-001-102/VA-Willstrong Dated: 21.12.20
				III				Toshniwal Industries Pvt ltd	Ajmer	A			For M/s Commend Austria make system
				III				Aishan Technologies Pvt Ltd	Bengaluru	A			For M/s Zenitel Norway make system
				III				Haritasa Checkmate Electronics Pvt Ltd	Bengaluru	A			For M/s Commend Austria make system


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		III				Netware Computer Pvt Ltd	New Delhi	A			For M/s Commend Austria make system
37	PLC System										
		I				Emerson Automation solution Intellegent plateforms Pvt Ltd	Bengaluru	A			PLC modules from M/s Emerson USA & BOI shall be from LOA approved sources
		I				ABB India Ltd	Bengaluru	A			
		I				Schneider Electric system india Pvt Ltd	Chennai	A			PLC modules from M/s Schneider France & BOI shall be from LOA approved sources
		I				Rockwell	Sahibabad	A			
		I				Siemens	Nasik	A			
		I				Honeywell	Pune	A			PLC modules from M/s Honeywell ,S.Korea & BOI shall be from LOA approved sources
		I				Schneider Electric India Pvt Ltd	Bengaluru	A			PLC modules from M/s Schneider France & BOI shall be from LOA approved sources
37-A	PLC System Integrators										<b>Note-11 and note-7</b>
		I				Ladder Automation Solution Pvt Ltd	Gurugram	A			For M/s Honeywell make system
		I				Virtual Automation	Ranga Reddy (Telangana)	A			For M/s Schneider make system
		I				Cotmac Electronics Pvt Ltd	Pune	A			For M/s SIEMENS make system
		I				Tech-Masters	Hyderabad	A			For M/s Emerson make system
		I				Powertech Switchgear (I) Pvt Ltd	Sonepat	A			For M/s Schneider make system
		I				Unity Industrial Automation Pvt Ltd	Delhi	A			For M/s Rockwell make system
		I				EMCONS	Ranchi	A			For M/s Rockwell make system
		I				Divya Engineers	Chennai	A			For M/s SIEMENS make system
		I				M D Industries	Vadodara	A			For M/s Emerson make system
		I				Velox automation	Surat	A			For M/s SIEMENS make system
		I				Vision Comptel	Kolkata	A			For M/s Emerson make system
		I				Adaptive Engineering Private Limited	Ahmedabad	A			For M/s Schneider make system
		I				Greenwave Solutions Private Limited	Kolkata	A			For M/s Rockwell make system
		I				Dreamz Automation	Ghaziabad	A			For M/s SIEMENS make system
		I				Creative Robotics	Ghaziabad	A			For M/s Honeywell make system
		I				Kruti Techno Engineer Pvt Ltd	Chhapraula (GB Nagar	A			For M/s SIEMENS make system
		I				EDS Instruments & Systems Pvt Ltd	Chennai	A			For M/s Honeywell make system
		I				Delsys Automation Technologies Pvt Ltd	Chennai	A			For M/s Emerson make system
		I				Hindustan Controols and Equipment Ltd	Kolkata	A			For M/s Emerson make system
		I				Vollkraft Engineering And Consultant (P) Ltd	Kolkata	A			For M/s Emerson make system
		I				SSM Infotech Solutions Pvt Ltd	Surat	A			For M/s Schneider make system
		I				Sun Industrial Automation & Solutions	CHENNAI	A			For M/s Schneider make system
		I				ARTEE FLOW CONTROL PVT LTD	ANKLESHWAR	A			For M/s Honeywell make system


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		I				CSS AUTOMATION PVT. LTD	KOLKATA	A			For M/s Emerson make system
		I				ARMAX AUTOMATION PVT LTD	BANGALORE	A			For M/s ABB make system
		I				KAIZEN AUTOMATION	AHEMDABAD	A			For M/s Schneider make system
		I				ELECON PERIPHERALS LIMITED	ANAND	A			For M/s ABB make system
38	Pneumatic Actuator Regulating (Power Cylinder HAD,CAD SADC & Burner Tilt )										
		I				Instrumentation Limited	Palakkad (Kerala)	A			
		I				Kelton	Cochin (Alleppy)	A			
		I				SMC Corporation India Private Ltd	Noida	A			Up to Bore size 12 inches
		I				IMI Norgren Herion Pvt ltd	Noida	A			
		II				Dong Woo Valve Control Co. Ltd	S.Korea	A			
		II				Shin Hwa Engineering Co. Ltd	S.Korea	A			
39	Radar type level transmitter										
		III				Limaco	Russia	A			High Frequency Type
		III				Emerson Process Management Ltd	Pawane	A			For M/s Emerson Singapore make
		III				Endress & Houser	Aurangabad	A			
		III				SIEMENS	Canada	A			
		III				B M Technology	Italy	A			For Non Contact type
		III				Magnetrol	Belgium	A			
		III				ABB	USA	A			K-Tech Brand
		III				Endress & Houser	Germany	A			
		III				Saab Rosemount	Sweden	A			
		III				Emerson Process Management	Singapore	A			Rosemount 3300 series for GW Radar & 5600 Series for Non-Contact type
		III				Endress & Houser	Germany	A			
		III				Vega Grieshaber KG	Germany	A			
40	Short Term Fire Proof cable										
		III				nVent Solutions limited	UK	A			
		III				Wrexham Mineral	UK	A			
		III				KME	Italy	A			
41	SWAS (Sampling Handling System and Dry Panel)										
		I				Emerson Process Management Ltd	Navi Mumbai	A			Analysers and Other BOI Componets from LOA agreed source
		I				Forbes Marshall	Pune	A			Analysers and Other BOI Componets from LOA agreed source
		I				SEPL	Pune	A			Analysers and Other BOI Componets from LOA agreed source
		I				YOKOGAWA INDIA LTD	Bangalore	A			Analysers and Other BOI Componets from LOA agreed source
42	Water Analyser (Chloride, Conductivity, Dissolved Oxygen,pH, Hydrazine, Concentration , Phosphate, Silica, Soddium,Turbidity, Total Iron, Degassed Cation Conductivity )										
		III				Emerson Process Management Pvt Ltd	Pawane	A			For Conductivity,pH, Dissolved Oxygen, Turbidity


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				III								Mettlet Toledo India Pvt Ltd	Vasai		A							For pH Analyser (1. PH analyser from M/S Mettler Toledo GmbH Switzerland 2. Other components like, Housing, Panel mounting kit, Tubing's & easy clean mechanism will be supplied by M/s Mettler Toledo India Pvt Ltd )
				III								Endress Hauser India Pvt. Limited	Mumbai		A							For pH Analyser (1. pH sensor with cable , analyser ,retract & cleaning assembly , electrolyte reservoir ( As applicable) will be supplied from Principals of M/S Endress Hauser India Pvt. Limited. 2. Other components like, Flow through assembly shall be supplied from M/S Endress Hauser India Pvt. Limited approved sources. )
				III								Thermo Fisher Scientific	USA		A							For Chloride,Dissolved Oxygen,Hydrazine
				III								ABB	UK		A							For Chloride,Dissolved Oxygen,Hydrazine, Phosphate, Silica,Sodium,Turbidity
				III								Hach	USA		A							For Conductivity, pH,Concentration, Phosphate, Silica,Turbidity
				III								ABB	USA		A							For Conductivity, pH
				III								Yokogawa	Japan		A							For Conductivity
				III								Hach	Switzerland		A							For Dissolved oxygen, Hydrazine, Silica,Sodium
				III								Yokogawa	Japan		A							For pH
				III								Eutech Instrument PTE Ltd	Singapore		A							For Silica
				III								Orion	USA		A							For Sodium
				I								METTLER TOLEDO INDIA PVT LTD	Mumbai		A							For Chloride Analyser
43	Temp Transmitter																					
43-A	Temp Transmitter																					
				III								Endress & Houser	Aurangabad		A							
				III								Emerson Process Management Ltd	Pawane		A							For M/s Emerson Singapore make
				III								Yokogawa	Bengaluru		A							Make Yokogawa japan and calibration at Yokogawa Banglore
				III								ABB	Bengaluru		A							For M/s ABB Germany make
				III								WIKA Instruments India Pvt Ltd	Pune		A							For M/s WIKA Germany make Model no T-32
				III								Honeywell Automation India Ltd	Pune		A							
				III								Yokogawa	Japan		A							
				III								Moore	USA		A							
				III								M System co Ltd	Japan		A							Model No-B3HU-0
				III								Emerson	U.S.A/Singapore/ Germany		A							
				III								ABB	Germany		A							
				III								Emerson Process Management	Germany		A							
43-B	Temp Transmitter -Field Bus based Single/Dual Input																					


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		I				ABB India Ltd	Bengaluru	A			One no of TT will be available at DCS supplier for function testing of field bus communication with DCS during FAT
44	Turbine supervisory Instruments along with vibration analysis system.										
		I				GE	Pune	A			For GE Bently ,USA make system
		I				Meggitt India Pvt Ltd	Bengaluru	A			For Meggitt (Vibrometer) Switzerland make system
		I				Forbes Marshall	Pune	A			For Shinkawa ,Japan make system
		II				GE BENTLY	USA	A			
		II				SHINKAWA	JAPAN	A			
		II				MEGGITT	Switzerland	A			
45	Ultrasonic Type Flow Meter (for Stack)										
		III				Sick India Pvt Ltd	Mumbai	A			For Sick AG Germany make
		III				Sick AG	Germany	A			
		III				Durag	Germany	A			
		III				Teledyne	USA	A			
46	Ultrasonic type level Transmitter										
		III				EIP Enviro	Noida	A			1-Ultrasonic level Tx shall be BM Technology Italy make 2-Required mounting arrangement , Testing, Calibration shall be carried out at M/s EIP Works.
		III				E & H	Aurangabad	A			
		III				Emerson Process Management Ltd	Pawane	A			Complete Instrument Transmitter & Probe to be procured from Mobrey UK , only intergration & configuration at Pawane works
		III				BM Technology	Italy	A			
		III				Siemens Miltronics	Canada	A			
		III				Nivelco Process Control	Hungary	A			
		III				E & H	Germany	A			
		III				HAWK Measurement PTY Ltd	Australia	A			
47	UPS With ACDB										
		Note-5				Vertive Energy Pvt Ltd	Pune	A			Upto 125 KVA for 1 phase and 300 KVA for 3 Phase
		Note-5				Vertive Energy Pvt Ltd	Mumbai	A			Upto 160 KVA
		Note-5				Hitachi Hirel Power Electronics Pvt Ltd	Gandhinagar	A			Upto 200 KVA,
		Note-5				Fuji Electric Consul Neowatt Private Limited	Pune	A			Up to 100 KVA single phase
		Note-5				KELTRON	Trivendrum	A			
		Note-5				Merlin & Gerin	France	A			
		Note-5				Gutor	Switzerland	A			
		Note-5				AEG	Germany	A			
		Note-5				Fuji Electric	Japan	A			
48	Vibration Monitoring System										
		II				Sensonics Technology India	Kundli	A			For Sensonic UK system

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		II				BHEL	Bengaluru	A			1. Imported items like Vibration Monitors, Cross Connection Cables, Buffered Output Modules, and Piezoelectric Vibration Sensors, Eddy Current type Proximity Probe, Extension Cable and Signal Conditioner will be procured from Valmet Automation, Finland. 2.Indigenous items like Communication cables, networking components, blank panels, TB, OWS will be procured from NTPC approved sources.
		II				IRD Mechanalysis Ltd	Thane	A			Vibration sensors will be sourced from M/s Hansford UK ,however brand name of IRD and its logo is acceptable with suitable tracebility of M/s Hansford ,UK.
		II				Forbes Marshall Pvt Limited	Pune	A			VMS hardware , Sensors ,extention cables shall be shinkawa Japan make .2. All other BOI shall be from LOA agreed sources
		II				GE	Pune	A			For GE Bentley , USA Make
		II				Rockwell Automation	Sahibabad	A			For Rockwell USA make
		II				SKF	Pune	A			For SKF USA make
		II				Imageneous Engineering Pvt Ltd	Vadodara	A			1-For Meggitt Switzerland make 2- Refer note 7
		II				Shinkawa	Japan	A			
		II				GE	USA	A			Bentley Niveda brand
		II				Meggitt	Switzerland	A			
		II				Sensonic Limited	UK	A			
49	Wireless Solution (Microwave Tower Communication)										
		I				L&T Technology Services (LTTS)	Bengaluru	A			1- Wireless Product (Access Point, Antenna) shall be M/s Cambium UK Make 2- Other Item like Switch, Cat-6 Cable can be supplied from M/s LTTS approved sources meeting technical requirements.
		I				Lotus wireless technologies India Pvt Ltd	Visakhapatnam	A			
		I				Sheetal Wireless Technologies Pvt Ltd	Pune	A			
		III				Proxim Wireless Corporation	USA	A			BOI shall be as per approval letter
50	Field Bus Cable/ Profibus Cable- PA & DP type										
		I				LAPP India Pvt Ltd	Bangalore	A			
51	Field bus components ( Field bus modules ,segment protector ,surge protector & SS JB )										
		III				Phoenix Contact Inc	USA	A			Materiall will be allowed to dispatch from the vendor works as CAT-III item ,however all material except SS junction box will be available at DDCMIS supplier works for functional testing .

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		III				Pepperl + Fuchs Pte Ltd	Singapore	A			Materiall will be allowed to dispatch from the vendor works as CAT-III item .however all material will be available at DDCMIS supplier works for functional testing .
52	Stockyard Management System( Including 3D profiling scanner ,Thermal Imaging Camera, RTK GPS)										
		III				TSA	Brazil	A			For 3D profiling / Tripple-IN Germany make
		I				EIP Enviro	Noida	A			For 3D profiling / 1-Tripple-IN Germany make Laser Scanner and RPU along with software from TSA Brazil inline with the M/s TSA Letter. 2- Other item like ethernet cable, Ethernet Switch, Junction Box required for execution of 3D stockpile management system can be supplied by EIP Enviro
53	Perimeter Intrusion Detection System										
		III				Senstar	Canada	A			
54	Radar based Perimeter Surveillance System										
		III				Magos System Ltd	Israel	A			Third Party "Cyber Penetration report " shall be provided along with material TC/COC
55	Thermal Camera ( PTZ)										
		III				FLIR Commercial Systems INC	USA	A			
<b>Main Contractor approved sources (Note-12)</b>											
MC-1	Amonia Analyser	III				Main Contractor Approved Sources					
MC-2	Amonia leak detector	III				Main Contractor Approved Sources					
MC-3	Air Filter Regulator	III				Main Contractor Approved Sources					
MC-4	Anemometer	III				Main Contractor Approved Sources					
MC-5	Annunciator	III				Main Contractor Approved Sources					
MC-6	Battery Health Monitoring System	III				Main Contractor Approved Sources					
MC-7	Biofouling/ Deposit Monitor	III				Main Contractor Approved Sources					
MC-8	Coal bunker Level monitor	III				Main Contractor Approved Sources					
MC-9	Compression Fittings(SS)	III				Main Contractor Approved Sources					
MC-10	Condensing Pots	III				Main Contractor Approved Sources					
MC-11	Conduits /Pipe (GI)	III				Main Contractor Approved Sources					
MC-12	Conduits lead coated ( Flexible )	III				Main Contractor Approved Sources					
MC-13	Copper tubing/Brass connectors	III				Main Contractor Approved Sources					
MC-14	Coriolios Type Mass Flow meter	III				Main Contractor Approved Sources					
MC-15	Coupling /Interposing Relays	III				Main Contractor Approved Sources					
MC-16	Density Indicator	III				Main Contractor Approved Sources					
MC-17	Desk for OWS/EWS/Printer/Server	III				Main Contractor Approved Sources					
MC-18	Digital Indicators	III				Main Contractor Approved Sources					
MC-19	Dust Sensor	III				Main Contractor Approved Sources					
MC-20	Dew point sensor/meter (H2)	III				Main Contractor Approved Sources					
MC-21	Flow Gauge	III				Main Contractor Approved Sources					
MC-22	Flow Indicator cum Totaliser	III				Main Contractor Approved Sources					
MC-23	Flow Switch	III				Main Contractor Approved Sources					
MC-24	FRP Junction Box	III				Main Contractor Approved Sources					

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MC-25	Furniture for control Room( Chair, Almira, Lock)	III				Main Contractor Approved Sources					
MC-26	Furnace exit gas temp probe	III				Main Contractor Approved Sources					
MC-27	Graphic Interface Unit	III				Main Contractor Approved Sources					
MC-28	Hand Held Calibrator	III				Main Contractor Approved Sources					
MC-29	Hart Management System	III				Main Contractor Approved Sources					
MC-30	Humidistat / Thermostat / Gyserstst / Airstat	III				Main Contractor Approved Sources					
MC-31	Instant Corrosion Rate Monitor & Portable Corrosion Meter	III				Main Contractor Approved Sources					
MC-32	Impact head type flow element	III				Main Contractor Approved Sources					
MC-33	Instrument Tube Fittings (Air)	III				Main Contractor Approved Sources					
MC-34	Instrument Valve	III				Main Contractor Approved Sources					
MC-35	IR Detector	III				Main Contractor Approved Sources					
MC-36	KVM Switch/Matrix KVM Switch	III				Main Contractor Approved Sources					
MC-37	Level gauge (Transperent & Reflex, Tubular type)	III				Main Contractor Approved Sources					
MC-38	Level Indicator (Float & Board type)	III				Main Contractor Approved Sources					
MC-39	Level switch - Float/Displacer Type	III				Main Contractor Approved Sources					
MC-40	Level Switch (RF Type)	III				Main Contractor Approved Sources					
MC-41	Level switch capacitance type	III				Main Contractor Approved Sources					
MC-42	Limit Switch	III				Main Contractor Approved Sources					
MC-43	Maintenance and Calibration Equipment	III				Main Contractor Approved Sources					
MC-44	Mini UPS-Type C configuration	III				Main Contractor Approved Sources					
MC-45	Orifice plate assembly	III				Main Contractor Approved Sources					
MC-46	On line carbon in Ash analyser	III				Main Contractor Approved Sources					
MC-47	Pitot Tube	III				Main Contractor Approved Sources					
MC-48	Pr./Vaccum./DP Gauges	III				Main Contractor Approved Sources					
MC-49	Press, DP, Vaccum Switch	III				Main Contractor Approved Sources					
MC-50	Printer (Dot Matrix/Inkjet / Laser)	III				Main Contractor Approved Sources					
MC-51	Psychrometer	III				Main Contractor Approved Sources					
MC-52	Pulse jet Controller	III				Main Contractor Approved Sources					
MC-53	Pulse Valve	III				Main Contractor Approved Sources					
MC-54	Residual Chlorine Analyser	III				Main Contractor Approved Sources					
MC-55	Rotameter	III				Main Contractor Approved Sources					
MC-56	Reverse Rotation Indicator	III				Main Contractor Approved Sources					
MC-57	Synchronising Relay	III				Main Contractor Approved Sources					
MC-58	Synchroscope	III				Main Contractor Approved Sources					
MC-59	Semaphore Indicators	III				Main Contractor Approved Sources					
MC-60	Sight Flow Indicator	III				Main Contractor Approved Sources					
MC-61	Smart Positioner	III				Main Contractor Approved Sources					
MC-62	Socket Weld Fittings	III				Main Contractor Approved Sources					
MC-63	Solenoid Valve	III				Main Contractor Approved Sources					
MC-64	Solid Mass Flow Meter	III				Main Contractor Approved Sources					
MC-65	Terminal Block (Cage and Clamp type)	III				Main Contractor Approved Sources					
MC-66	Temperature cum Humidity Indicator	III				Main Contractor Approved Sources					
MC-67	Temperature Element(Thermocouple , RTD & Thermowell)	III				Main Contractor Approved Sources					
MC-68	Temperature Gauge( With Thermowell)	III				Main Contractor Approved Sources					
MC-69	Temperature Switch	III				Main Contractor Approved Sources					
MC-70	Transducer	III				Main Contractor Approved Sources					
MC-71	Tube thicknes Meter	III				Main Contractor Approved Sources					
MC-72	Voltmeter/ Watterhour Meter	III				Main Contractor Approved Sources					
MC-73	Valve manifolds	III				Main Contractor Approved Sources					
MC-74	Electric to Pneumatic Converter	III				Main Contractor Approved Sources					
MC-75	Network components	III				Main Contractor Approved Sources					
MC-76	Isolator	III				Main Contractor Approved Sources					
MC-77	ORP Monitor /Analyser	III				Main Contractor Approved Sources					

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MC-78	Ultrasonic Type Flow Transmitter	III				Main Contractor Approved Sources					
MC-79	Chlorine Leak detector	III				Main Contractor Approved Sources					
MC-80	Density Meter	III				Main Contractor Approved Sources					
MC-81	Electro Magenetic Flow meter	III				Main Contractor Approved Sources					
MC-82	Postive dispalcement Type Flow Meter	III				Main Contractor Approved Sources					
MC-83	Level Scanner (3 D)for Solid Application	III				Main Contractor Approved Sources					
MC-84	Mosaic tiles /Console items	III				Main Contractor Approved Sources					
MC-85	Electrical Control Panel ( UCP/Backup)	III				Main Contractor Approved Sources					
MC-86	Electrical Indicating Instruments (Mosaic Compatible)	III				Main Contractor Approved Sources					
MC-87	OWS/EWS/Server	III				Main Contractor Approved Sources					
MC-88	Bio Matrix Reader	III				Main Contractor Approved Sources					
MC-89	ANPR	III				Main Contractor Approved Sources					
MC-90	UVSS	III				Main Contractor Approved Sources					
MC-91	Comd & Control System	III				Main Contractor Approved Sources					
MC-92	Access & Controllor Software	III				Main Contractor Approved Sources					
MC-93	IR LED based Illuminator	III				Main Contractor Approved Sources					
MC-94	ATB Bolloard	III				Main Contractor Approved Sources					
MC-95	Boom Barrier	III				Main Contractor Approved Sources					
MC-96	Touchless biometric recorder	III				Main Contractor Approved Sources					
MC-97	GPS Sensor based Vehicle Monitoring system	III				Main Contractor Approved Sources					
MC-98	10mp digital camera with tripod for photo capture	III				Main Contractor Approved Sources					
MC-99	2D GIS map application	III				Main Contractor Approved Sources					
MC-100	Audible alarm device	III				Main Contractor Approved Sources					
MC-101	CameraPoles	III				Main Contractor Approved Sources					
MC-102	Card Reader	III				Main Contractor Approved Sources					
MC-103	Door Frame Metal Detector -DFMD	III				Main Contractor Approved Sources					
MC-104	Door sensor	III				Main Contractor Approved Sources					
MC-105	Egress Switch	III				Main Contractor Approved Sources					
MC-106	EM LOCK	III				Main Contractor Approved Sources					
MC-107	Emergency exit / door override switch	III				Main Contractor Approved Sources					
MC-108	Emergency Siren /Hooter	III				Main Contractor Approved Sources					
MC-109	Flap barrier	III				Main Contractor Approved Sources					
MC-110	Flash Lights for covering perimeter area for clear view from PTZ in night time	III				Main Contractor Approved Sources					
MC-111	Geo fencing	III				Main Contractor Approved Sources					
MC-112	Glass Break switch at Emergency Exit	III				Main Contractor Approved Sources					
MC-113	Guard tour	III				Main Contractor Approved Sources					
MC-114	Half Height Turnstile	III				Main Contractor Approved Sources					
MC-115	Handheld Walkie - Talkie	III				Main Contractor Approved Sources					
MC-116	HHMD	III				Main Contractor Approved Sources					
MC-117	Long Range RFID Reader	III				Main Contractor Approved Sources					
MC-118	Monitors 24 Inch Full HD	III				Main Contractor Approved Sources					
MC-119	Network Panel	III				Main Contractor Approved Sources					
MC-120	Optical Time Domain Reflector-meter (OTDR) with all accessories	III				Main Contractor Approved Sources					
MC-121	Panic Button with Audible Alarm	III				Main Contractor Approved Sources					
MC-122	Panic button/SOS button supportin SIP protocol	III				Main Contractor Approved Sources					
MC-123	RFID based Stickers	III				Main Contractor Approved Sources					
MC-124	Sliding Gate	III				Main Contractor Approved Sources					
MC-125	SMS gateway	III				Main Contractor Approved Sources					
MC-126	Storage Device (SAN/NAS/DAS) of 100 TB each	III				Main Contractor Approved Sources					
MC-127	Traffic Light	III				Main Contractor Approved Sources					

		PROJECT: CSPGCL SCTPP HTPS KORBA WEST (2X660 MW)					LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB SUPPLIER APPROVAL				REVISION NO : 00
		PACKAGE : EPC PACKAGES									DATE :25.09.2023
		CONTRACTOR:									SUB SECTION: C&I
		CONTRACT NO :									
Sr No	Item Description	QP Inspection Category	QP No	QP submission SCH	QP approval SCH	Proposed Sub Supplier	Country	SS Approval Status (Note-1)	SS Detail Sub.SCH	SS Approval SCH	Remark
MC-128	Turnstile - half height	III				Main Contractor Approved Sources					
MC-129	SPIKE BARRIER	III				Main Contractor Approved Sources					
MC-130	CHAIN LINK FENCE	III				Main Contractor Approved Sources					
MC-131	X-ray Baggage Scanner	III				Main Contractor Approved Sources					
MC-132	Static Radio Set	III				Main Contractor Approved Sources					
MC-133	EPABX equipments	III				Main Contractor Approved Sources					
<b>LEGENDS :</b>											
<b>1.0 SYSTEM SUPPLIER / SUB SUPPLIER APPROVAL STATUS CATEGORY</b>											
A - For those items proposed vendor is acceptable to Customer. To be indicated with letter "A" in the list along with the condition of approval, if any.											
<b>2.0 QP INSPECTION CATEGORY :</b>											
CAT - I : For those items the Quality Plans are approved by Customer and final acceptance will be on physical inspection witness by Customer											
CAT - II : For those items the Quality Plans are approved by Customer. However no physical inspection shall be done by Customer. The final acceptance by Customer shall be on the basis of review of documents.											
CAT - III : For these items Quality control to be exercised as per Main contractor Quality Assurance System. The final acceptance by NTPC shall be on the basis of Certificate of Conformance (COC) by Main Contractor.											
UNITS/WORKS : Place of manufacturing- Place of main supplier of multi units/works.											
NOTE - 1 : A: Vendors to submit project specific documents as per Sub-QR requirements in case the Vendor is approved under collaboration agreement.											
B: In case approved sub vendor is offering product with latest model/series apart from earlier approved, vendors to submit project specific documents as per Sub-QR requirements.											
NOTE - 2 : For Instrument cable <= 1 KM inspection category CAT - III, For > 1 KM to <= 10 KM Inspection category CAT - II COC & FOR > 10 KM Inspection category CAT-I											
NOTE -3 : For Fiber Optic cable <=10KM inspection category CAT - III & for > 10KM Inspection category CAT-II											
NOTE-4 : Batteries for UPS <= 10 KVA and batteries for intelligent battery charger 24 V DC <= 40 Amp inspection category CAT-III & for Batteries for UPS > 10KVA and batteries for intelligent battery charger 24 V DC > 40 Amp rating											
NOTE-5 UPS <= 10 KVA rating inspection category CAT-III & for > 10KVA rating inspection category CAT-I											
NOTE - 7 - EMPTY CABINETS, COMPUTERS, SIGNAL ISOLATOR/ MULTIPLIER and TB SHALL ALSO BE ACCEPTABLE FROM OWNER ACCEPTED IN QP. IF THE TOTAL INTEGRATED PANEL AND FAT IS CONDUCTED INDEGENEOUSLY											
NOTE-8 : For the C & I instruments mounted on the skid of the main item or supplied as an integral part of the main item, instrument to be supplied as per proven practice of the manufacturer meeting the Customer technical specification											
NOTE-9- This item is a bought out component of main equipments like DDCMIS ,PLC,TSI,CCTV ,PA system etc											
NOTE-10- For these controlled items, vendor shall be proposed for owner acceptance within the agreed contract schedule of the package											
NOTE-11 - Major Bought-Out-Items are to be procured from LOA approved sources & the same shall be finalized during the finalization of Manufacturing Quality Plan . MQP shall be duly vetted by OEM with their project specific authorisation letter .											
NOTE-12 : Main contractor approved sub vendors are acceptable those are evaluated / assessed as per Main contractor Quality Management System for vendor approval. Main contractor to inform the finally selected vendor to NTPC as soon as PO is placed for these items. In case of sub-QR Note-1 is also applicable.											



PROJECT: 2 X 660 MW SUPER CRITICAL THERMAL POWER PROJECT, KORBA WEST, CSPGCL	LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL	DOC NO	03-05 / 2x660 MW / T-13 / 2023
PACKAGE: EPC PACKAGE		REV. NO.	
Main supplier:	SUB SYSTEM: CIVIL WORKS	DATE	
Contract No.:			

SL. NO.	ITEM	QAP / INSP. CAT	PROPOSED SUB SUPPLIER	PLACE OF MANUFACTURING	APPROVAL STATUS / CATEGORY	REMARKS
1.	GALVANIZED STEEL STRUCTURES (LATTICE & PIPE) FOR SWITCHYARD AND TRANSMISION LINE	I	VIJAY TRANSMISSION LTD	RAIPUR	A	
			UNITECH POWER TRANSMISSION LTD	NAGPUR	A	
			ASSOCIATED POWER STRUCTURES	VADODARA	A	
			R.S. INFRAPROJECTS PVT. LTD	SURAJPUR	A	
			NEW MODERN TECHNOMECH	MAYURBHANJ (ORRISA)	A	
			GOOD LUCK STEEL TUBES	SIKANDRABAD	A	
			UNIQUE STRUCTURES & TOWERS LTD.	RAIPUR	A	
			VATCO ELEC-POWER PVT. LTD.	NAVIMUMBAI	A	GALVANISING AT SIGMA GALVANISER NAVI MUMBAI
			R.S. INFRAPROJECTS PVT. LTD	SIKANDRABAD	A	
			ADVANCE STEEL TUBE	SAHIBABAD	A	
			SANGAM STRUCTURES LTD.	ALLAHABAD	A	
			RELIABLE SPONGE PVT LTD UNIT III	KALUNGA	A	
			VSP ENTERPRISES PVT. LTD	SONEPAT	A	
SKIPPER LIMITED	UNIT-I: JANGALPUR, Howrah. Unit-II: ULUBERIA UNIT, Howrah. UNIT- III: BCTL, Howrah.	A	Proto type inspection at Unit-Bagnan, Howrah			



PROJECT: 2 X 660 MW SUPER CRITICAL THERMAL POWER PROJECT, KORBA WEST, CSPGCL	LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL	DOC NO	03-05 / 2x660 MW / T-13 / 2023
PACKAGE: EPC PACKAGE		REV. NO.	
Main supplier:	SUB SYSTEM: CIVIL WORKS	DATE	
Contract No.:			

SL. NO.	ITEM	QAP / INSP. CAT	PROPOSED SUB SUPPLIER	PLACE OF MANUFACTURING	APPROVAL STATUS / CATEGORY	REMARKS
			RUKMANI ELECTRICAL & COMPONENT PVT. LTD	RAIPUR	A	
			RICHARDSON & CRUDDAS (1972) LTD	NAGPUR	A	
2.	COLOUR COATED METAL DECK & CLADDING/ROOFING SHEET (COIL)	I	TATA STEEL LIMITED	KHOPOLI, RAIGARH	A	
			TATA STEEL LIMITED	SAHIBABAD	A	
			TATA BLUESCOPE STEEL LTD	JAMSHEDPUR	A	AL-ZN COIL FOR CLADDING
			ESSAR STEEL LTD	PUNE	A	
			NATIONAL STEEL & AGRO INDUSTRIES LTD	DHAR	A	
			JSW STEEL COATED PRODUCTS LTD	KALMESHWAR (NAGPUR)	A	
			JSW STEEL COATED PRODUCTS LTD	TARAPUR, BOISAR	A	
3.	CHIMNEY ELEVATOR (RACK AND PINION)	I	MEKASTER ENGG. & EQUIPMENT(P) LTD.	HALOL, GUJARAT	A	
			ALIKRAFT ENGINEERS PVT. LTD.	SAVIL (VADODARA)	A	
			AVON CRANES	GURGAON	A	
			UNIVERSAL CONSTRUCTION MACHINERY & EQUIPMENT LTD.	PUNE	A	
4.	HDPE LINER (GEOMEMBRANE)	I	MAIN CONTRACTOR APPROVED SOURCE	-	-	
5.	ELECTROFORGED GRATING	II	INDIANA GRATINGS PVT. LTD	PUNE	A	




PROJECT: 2 X 660 MW SUPER CRITICAL THERMAL POWER PROJECT, KORBA WEST, CSPGCL	LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL	DOC NO	03-05 / 2x660 MW / T-13 / 2023	
PACKAGE: EPC PACKAGE		REV. NO.		
Main supplier:		SUB SYSTEM: CIVIL WORKS	DATE	
Contract No.:				

SL. NO.	ITEM	QAP / INSP. CAT	PROPOSED SUB SUPPLIER	PLACE OF MANUFACTURING	APPROVAL STATUS / CATEGORY	REMARKS
			KANADE ANAND UDYOG	THANE	A	
			PREMIER POWER PRODUCTS LTD	HOWRAH	A	
			BHOLA RAM STEEL PVT. LTD	PATNA	A	
			PINAX STEEL INDUSTRIES PVT LTD	PATNA	A	
			GREATWELD STEEL GRATING PVT. LTD	PUNE	A	
			ANKIT ELECTROGRATING	RAIPUR	A	
			SUTTATTI ENTERPRISES LTD.	PUNE	A	
			RATAN PROJECTS & ENGINEERING CO. PVT. LTD.	HOWRAH	A	
			VINFAB ENGINEERS INDIA PVT LTD. (For Galvanising) VINFAB GRATINGS (For Fabrication)	THANE	A	
6.	PROFILERS FOR COLOUR COATED METAL DECK & CLADDING/ROOFING SHEETS	II	MAIN CONTRACTOR APPROVED SOURCE	-	-	
7.	FABRIC EXPANSION COMPENSATOR (FOR CHIMNEY)	II	MAIN CONTRACTOR APPROVED SOURCE	-	-	
8.	MINERAL WOOL FOR THERMAL INSULATION (FOR CHIMNEY)	II	MAIN CONTRACTOR APPROVED SOURCE	-	-	
9.	STOP LOG GATES, TRASH RACK AND LIFTING BEAM	II	MAIN CONTRACTOR APPROVED SOURCE	-	-	
10.	HIGH PERFORMANCE MOISTURE COMPATIBLE CORROSION	III	CECRI LICENSED SOURCES	-	-	



PROJECT: 2 X 660 MW SUPER CRITICAL THERMAL POWER PROJECT, KORBA WEST, CSPGCL	LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL	DOC NO	03-05 / 2x660 MW / T-13 / 2023	
PACKAGE: EPC PACKAGE		REV. NO.		
Main supplier:		SUB SYSTEM: CIVIL WORKS	DATE	
Contract No.:				

SL. NO.	ITEM	QAP / INSP. CAT	PROPOSED SUB SUPPLIER	PLACE OF MANUFACTURING	APPROVAL STATUS / CATEGORY	REMARKS
	RESISTANT COATING SYSTEM					
11.	BITUMEN	III	ALL GOVERNMENT REFIINARIES	-	-	
12.	PTFE BEARING / ELASTOMERIC BEARING	III	MORTH / RDSO APPROVED VENDORS	-	-	
13.	CEMENT	III	BIS APPROVED SOURCES HAVING VALID BIS LICENCE	-	-	
14.	CI PIPES	III	BIS APPROVED SOURCES HAVING VALID BIS LICENCE	-	-	
15.	RCC PIPES	III	BIS APPROVED SOURCES HAVING VALID BIS LICENCE	-	-	
16.	CPVC/UPVC PIPES	III	BIS APPROVED SOURCES HAVING VALID BIS LICENCE	-	-	
17.	PVC WATER STOP	III	BIS APPROVED SOURCES HAVING VALID BIS LICENCE	-	-	
18.	POLYTHENE WATER STORAGE TANKS	III	BIS APPROVED SOURCES HAVING VALID BIS LICENCE	-	-	
19.	CERAMIC / VITRIFIED TILES	III	BIS APPROVED SOURCES HAVING VALID BIS LICENCE	-	-	
20.	PARTICLE BOARDS, PLYWOOD, MDF	III	BIS APPROVED SOURCES HAVING VALID BIS LICENCE	-	-	
21.	FIRE PROOF DOORS	III	MAIN CONTRACTOR APPROVED SOURCES WITH VALID PROTOTYPE TEST REPORT FROM CBRI/CPRI/GOV. LAB.)	-	-	
22.	CONSTRUCTION CHEMICALS/ADMIXTURE, WATER PROOFING COMPOUNDS AND GROUTS	III	MAIN CONTRACTOR APPROVED SOURCE	-	-	
23.	PAINT AND PAINTING SYSTEM	III	MAIN CONTRACTOR APPROVED SOURCE	-	-	
24.	HIGH SOLID CONTENT LIQUID	III	MAIN CONTRACTOR APPROVED	-	-	

	PROJECT: 2 X 660 MW SUPER CRITICAL THERMAL POWER PROJECT, KORBA WEST, CSPGCL	LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL			DOC NO	03-05 / 2x660 MW / T-13 / 2023	
	PACKAGE: EPC PACKAGE				REV. NO.		
	Main supplier:	SUB SYSTEM: CIVIL WORKS			DATE		
	Contract No.:						
SL. NO.	ITEM	QAP / INSP. CAT	PROPOSED SUB SUPPLIER	PLACE OF MANUFACTURING	APPROVAL STATUS / CATEGORY	REMARKS	
	APPLIED URETHANE BASED ELASTOMERIC MEMBRANE FOR WATER PROOFING		SOURCE				
25.	FOUNDATION BOLTS	III	MAIN CONTRACTOR APPROVED SOURCE	-	-		
<b>LEGENDS:</b>  <b>1. SYSTEM SUPPLIER/SUB-SUPPLIER APPROVAL STATUS CATEGORY (SHALL BE FILLED BY OWNER)</b> <b>A</b> – For these items proposed vendor is acceptable to OWNER. To be indicated with letter “A” in the list along with the condition of approval, if any. <b>DR</b> – For these items “Details required” for OWNER review. To be identified with letter “DR” in the list.  <b>2. QP/INSPN CATEGORY:</b> CAT-I: For these items the Quality Plans are approved by OWNER and the final acceptance will be on physical inspection witness by OWNER. CAT-II: For these items the Quality Plans approved by OWNER. However, no physical inspection shall be done by OWNER. The final acceptance by OWNER shall be on the basis review of documents as per approved quality plan. CAT-III: For these items the Quality control to be exercised as per Main Contractor Quality Assurance System. The final acceptance by OWNER shall be on the basis of Certificate of conformance (COC) by Main Contractor. UNITS/ WORKS: Place of manufacturing Place of Main Supplier of multi units/works.							
<b>NOTE 1: For the items placed in CAT-III for Civil Works, the review and final acceptance shall be done by OWNER-EIC/ FQA on the basis of MTC / certificate of conformance in line with Technical Specifications/FQP.</b>							